ENGLISH

Precautions

Thank you for purchasing this DVD/VCR.
The DVD/VCR can play back both DVD discs and Audio CDs.
• Use only discs marked with the following.

DVD
[8 cm disc/12 cm disc]

Video CDs/Audio CDs
[8 cm disc/12 cm disc]

Important Warning

CAUTION:
A DVD/VCR IS A CLASS 1 LASER PRODUCT. HOWEVER THIS DVD/VCR USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE DVD/VCR.

WHEN THIS DVD/VCR IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS DVD/VCR.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

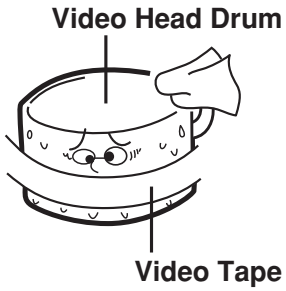
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Moisture Condensation

If the unit is suddenly moved from a cold place to a warm place, do not operate it for two or three hours.

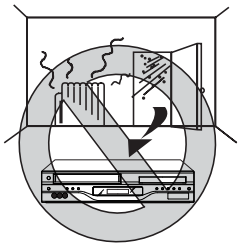


■ What is moisture condensation

When cold water is poured into a glass, for example, water vapour in the air will condense will form on the surface of the glass. This is called moisture condensation.

■ Moisture will condense on the unit in the following cases;

- When you move this unit from a cold place to a warm place.
- After heating a cold room or under extremely humid conditions.



■ If you experience the above conditions;

"Plug" the mains lead into an AC outlet, set the ON/STANDBY button to ON and leave at the room temperature until moisture condensation disappears.
Depending on the surrounding conditions, this may take two or three hours.

ENGLISH

- To prevent injuries do not insert your hand into the cassette loading slot.

  Watch out for toddlers who often love to imitate the behavior of adults. In some cases, toys inserted into the cassette loading slot have resulted in expensive repairs.

- Do not place the unit near appliances which may cause electromagnetic interference such as loudspeakers, amplifiers, electric motors, mobile phone, etc. Magnetic fields may affect picture or sound quality of video recordings.

- Avoid extreme moisture and dust.

- Leave repairs to a qualified service technician.

- Avoid locations subjected to extreme heat and cold.

- Avoid placing to place the unit on any surfaces that may be subjected to vibrations or shocks.

- Do not insert fingers or any other objects into the cassette loading slot. Also, when cleaning the unit, never spray cleaner or furniture wax directly on the unit housing.

- Do not place flower vases on top or next to the unit. Water spilled into the unit could cause serious damages. In case of water damage, do not unplug the power cord from its wall outlet and call for qualified service immediately.

- When you leave your home for a long period of time, unplug the power cord for safety reasons.

- **Cleaning Precautions**
  For cleaning the VCR, we recommend a mild soap solution and a slightly moistened soft cloth as it is used for furniture. To avoid electrical shocks, unplug the power cord from its wall outlet before cleaning. Be especially careful when cleaning plastic components.

- To protect the unit during a thunder storm, unplug the power cord and disconnect the antenna.

Precautions

SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

****

DO read the operating instructions before you attempt to use the equipment.
DO ensure that all electrical connections (including the mains plug, extension leads and inter- connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.
DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
DO be careful with glass panels or doors on equipment.

****

DON'T remove any fixed cover as this may expose dangerous voltages.
DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.
DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.
DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.
DON'T use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.
DON'T listen to headphones at high volume, as such use can permanently damage your hearing.
DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.
DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way -switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL
---NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;
---NEVER guess or take chances with electrical equipment of any kind
---it is better to be safe than sorry!

****

Video Cassette Recorder

- High Quality (HQ) Images
- On-Screen Displays (OSD)
- Nicam Hi-Fi Stereo Audio Recording and Playback
- CATV Tuner with Hyperband
- 80 Memories for Presets
- Automatic TV Station Presetting
- 30 Minutes Back-Up in case of Power Failure
- 6 Rotary Heads (4 Video Heads 2 Hi-Fi Audio Heads)
- Long Play
- Timer Recording of up to 8 Programs per Month
- One- Touch Timer Recording (OTR)
- Video Index Search System
- Slow Motion
- NTSC Video Cassette Tape Playback on PAL TV
- Real-Time Tape Counter with ZERO RETURN-Function
- Digital AUTO Tracking (ATR Function)
- Repeat
- On-Screen Display in 2 Languages
- AV-Front Input Jacks
- 2 Scart Sockets for Premiere
- CE Symbol Guaranteeing Compliance to Currently Effective European Standards

DVD Player

- Digital Audio Jack (Coaxial)
- Multi-Language
- Multi-Angle
- Repeat Playback
- Memory/Random Playback
- Zoom
- Video Aspect Ratio
- Parental Control
- 3 Scenes Memory
- Digital output for Dolby Digital and DTS
- Playback of DVD, Video-CD and Audio-CD
- PAL & NTSC DVDs Playback
- A-B Repeat Playback
- MP3/JPEG CD Playback

* This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation or other rights owners and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation or other rights owners. Reverse engineering or disassembly is prohibited. Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 or 625 progressive scan picture problems, it is recommended that the user switch the connection to the “STANDARD DEFINITION” output. If there are questions regarding our TV set compatibility with this model 525p and 625p DVD player, please contact our customer service center.

* Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

* “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

* Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

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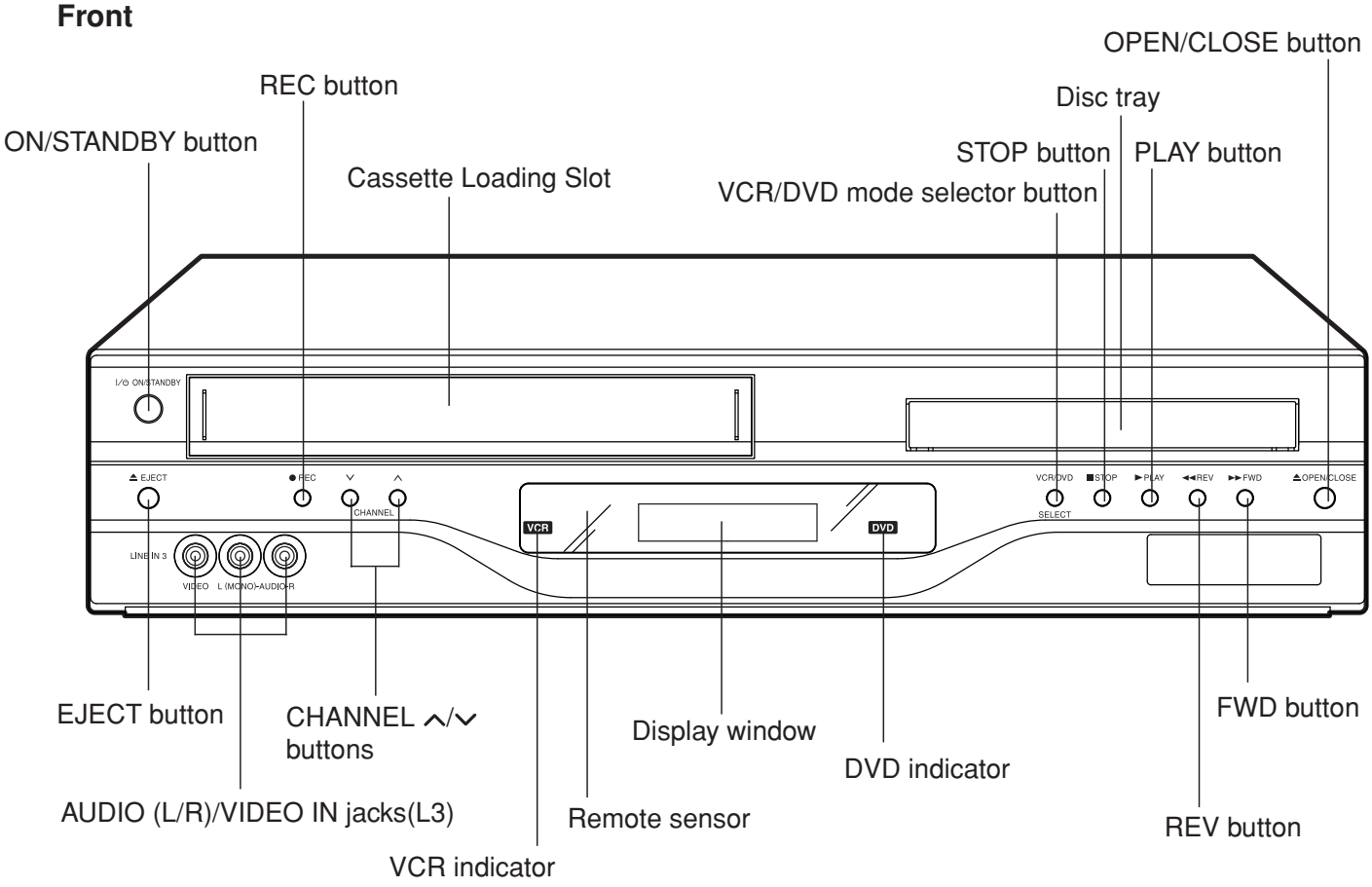
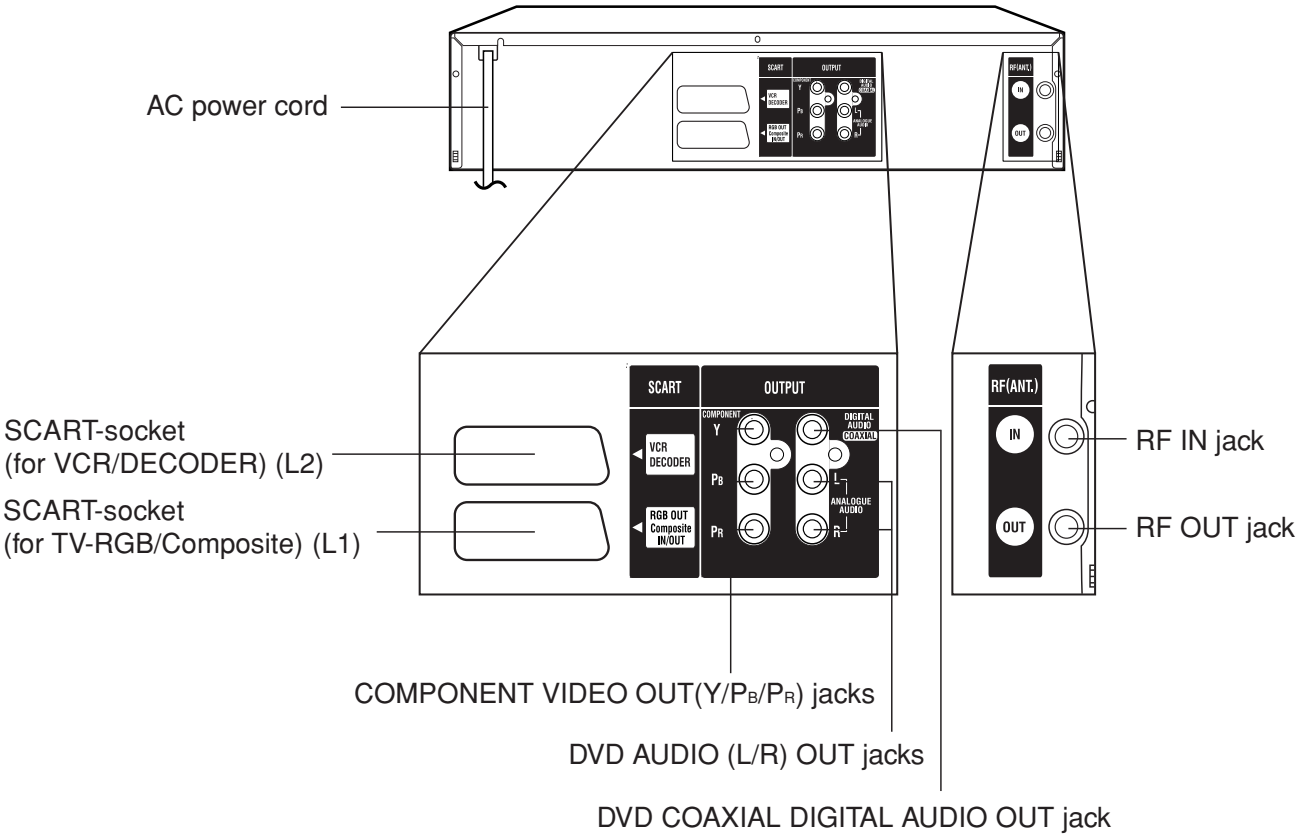
Front

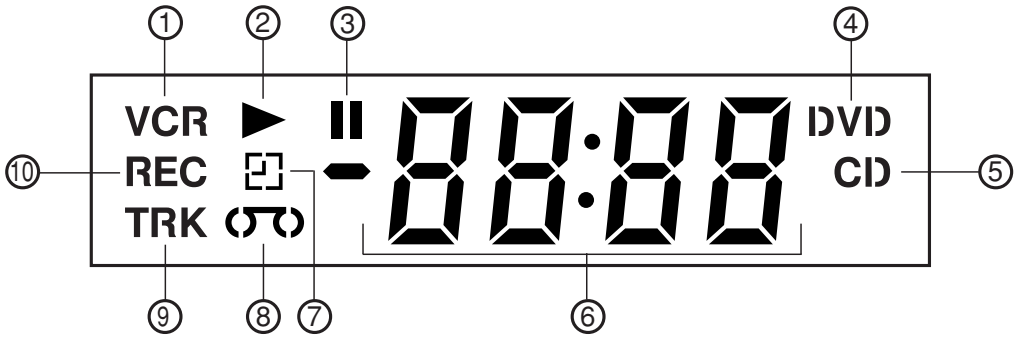

OPEN/CLOSE button
REC button
Disc tray
ON/STANDBY button
STOP button
PLAY button
Cassette Loading Slot
VCR/DVD mode selector button
I/⏻ ON/STANDBY
⏏ EJECT
● REC
CHANNEL
VCR
DVD
VCR/DVD
■ STOP
► PLAY
◄◄ REV
►► FWD
⏏ OPEN/CLOSE
SELECT
LINE IN 3
VIDEO L (MONO)-AUDIO-R
EJECT button
CHANNEL ∧/∨ buttons
Display window
DVD indicator
FWD button
AUDIO (L/R)/VIDEO IN jacks(L3)
Remote sensor
REV button
VCR indicator

Rear


AC power cord
SCART
OUTPUT
RF(ANT.)
IN
OUT
VCR DECODER
RGB OUT Composite IN/OUT
COMPONENT
Y
PB
PR
DIGITAL AUDIO COAXIAL
ANALOGUE AUDIO
L
R
SCART-socket (for VCR/DECODER) (L2)
SCART-socket (for TV-RGB/Composite) (L1)
RF IN jack
RF OUT jack
COMPONENT VIDEO OUT(Y/PB/PR) jacks
DVD AUDIO (L/R) OUT jacks
DVD COAXIAL DIGITAL AUDIO OUT jack

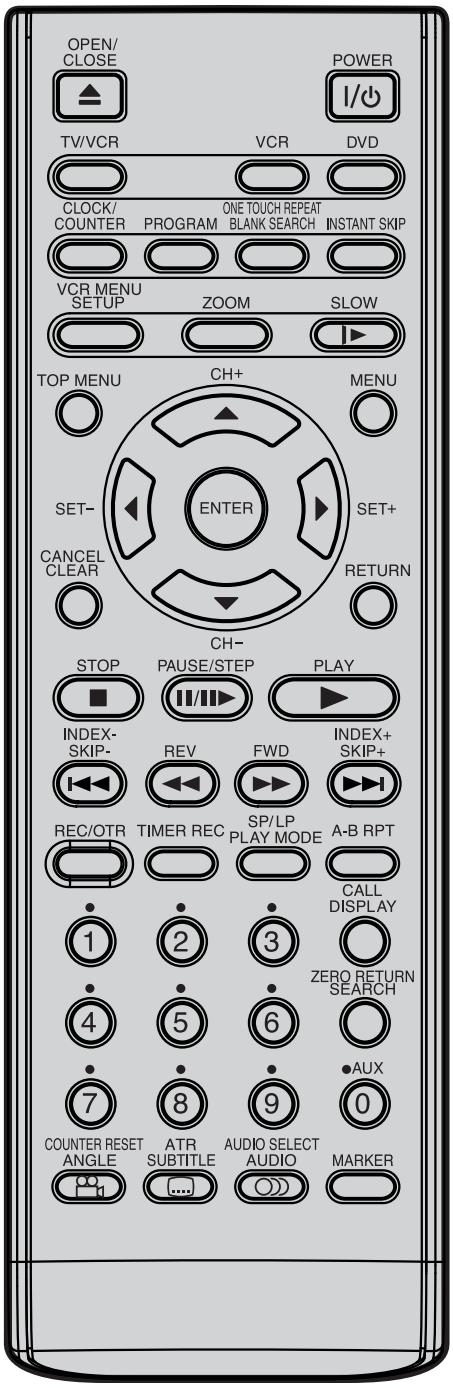
Display

Display window



No.	Display	Description
①	VCR	VCR mode
②	▶	Playback (lights) / Auto resume (flashes)
③	⏸	Still picture
④	DVD	DVD disc is inserted.
⑤	CD	CD is inserted.
⑥	10 : 00	Clock display (colon[:] flashes)
	01 : 00	Counter display by hour/minute at VCR/DVD / by minute/second at CD
	2	Track number display for CD
	CH 2	TV channel position display
	L1/L2/L3	External input display
⑦		Timer recording display
⑧		Video tape is in the unit
⑨	TRK	Track display for CD
⑩	REC	Normal recording display (flashes during One-touch Timer Recording - OTR)

Note:
Some discs may be displayed wrong or e.g. chapter number, playback time, etc. may not be displayed.



		Page
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	Select option in the menu	
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AUDIO SELECT	Switches sound between mono and stereo	36
AUDIO	Change soundtrack language of DVD	48
MARKER	Index(DVD)	44

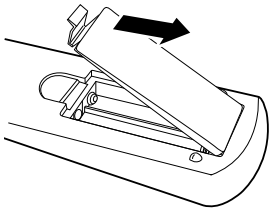
Remote control

How to install the batteries

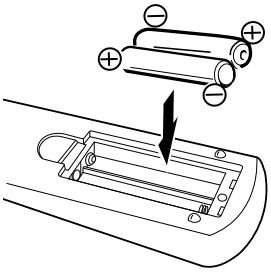
Use **micro batteries type UM-4** (**R03**/**AAA-Size**).
These batteries are offered as carbon / zinc-type or as alkaline-type. You may use both, but do not mix types. The alkaline type lasts longer compared to the carbon / zinc type but is more expensive.

Note: Flat, weak batteries will leak. **Corrosive** electrolyte will **damage** the remote control handset.
Leak proof batteries will not leak immediately when they are flat. As long as the handset is still working, there is no danger of leakage. To prevent damage, remove the batteries if you do not use the handset for several months.
Damage because of leakage is not covered by the guarantee.

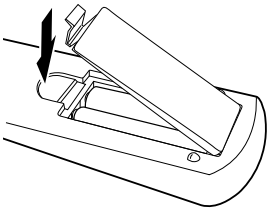
1 Open the battery compartment cover in the direction of the arrow.



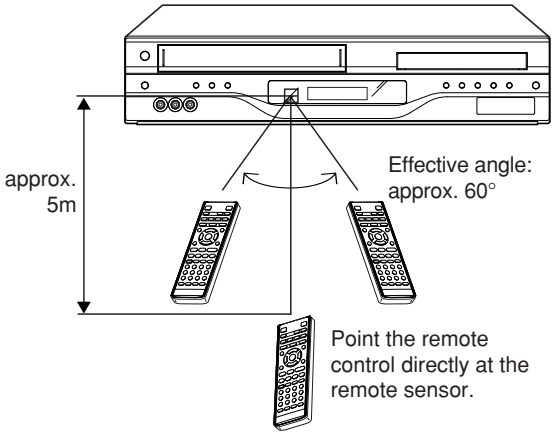
2 Install two "R03/AAA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.



3 Replace the compartment cover.

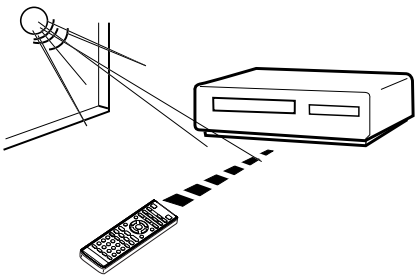


Distance of Remote Control Operation

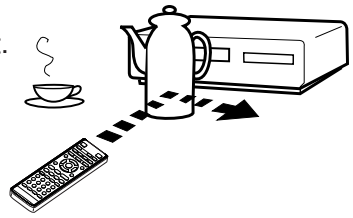


The remote control handset will not work properly in the following cases:

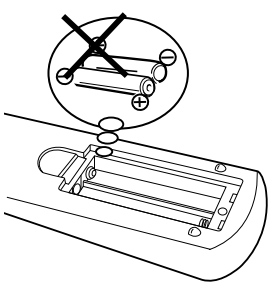
If bright sunlight directly beams onto the unit front.



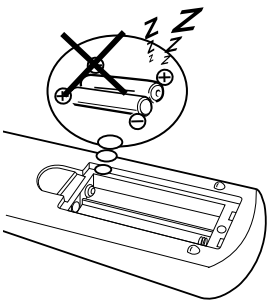
If an obstacle is placed between the unit and the handset.



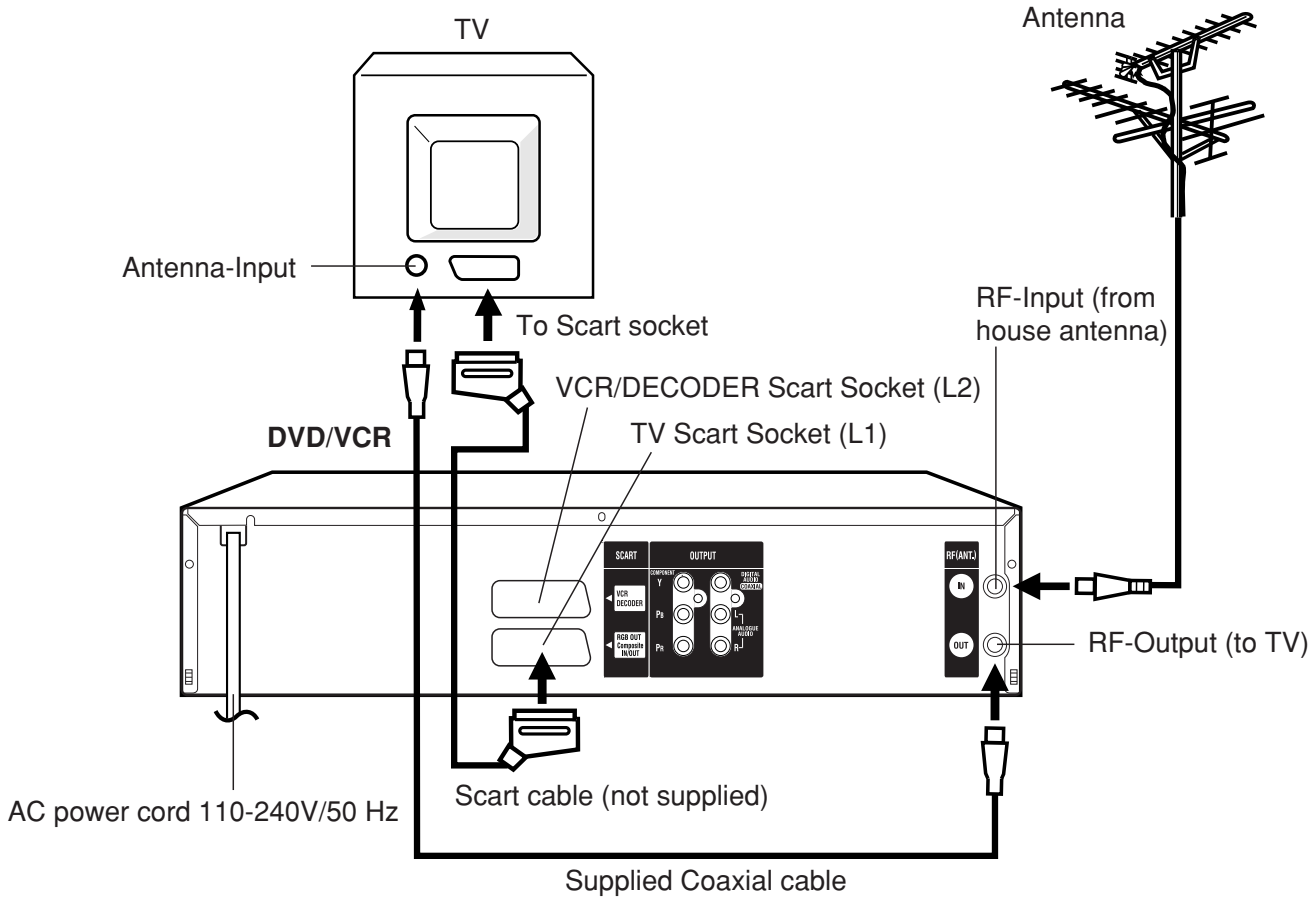
If the batteries have not been installed according to their polarities.



If the batteries are weak.



Connect your DVD/VCR to your home's antenna and to your TV-set as shown in the illustration.
When you have finished these connections then connect your DVD/VCR to the 110~240 V / 50 Hz mains.



Connect a TV with the Scart socket

In addition to the coaxial cable connection, also connect with scart cable. The picture and sound will be transmitted best through the scart cable. In this case, the TV need not be tuned to the video recorder. The AV-channel also need not be tuned. The video recorder switch the television to video operation through the scart cable automatically. The stereo-playback is possible only through a scart cable!

If your TV-set does not switch to video-playback operation automatically, please turn your TV's video switch to VIDEO position manually.

Note:
Make sure that both the television and the DVD/VCR are switched off before connecting the cables.

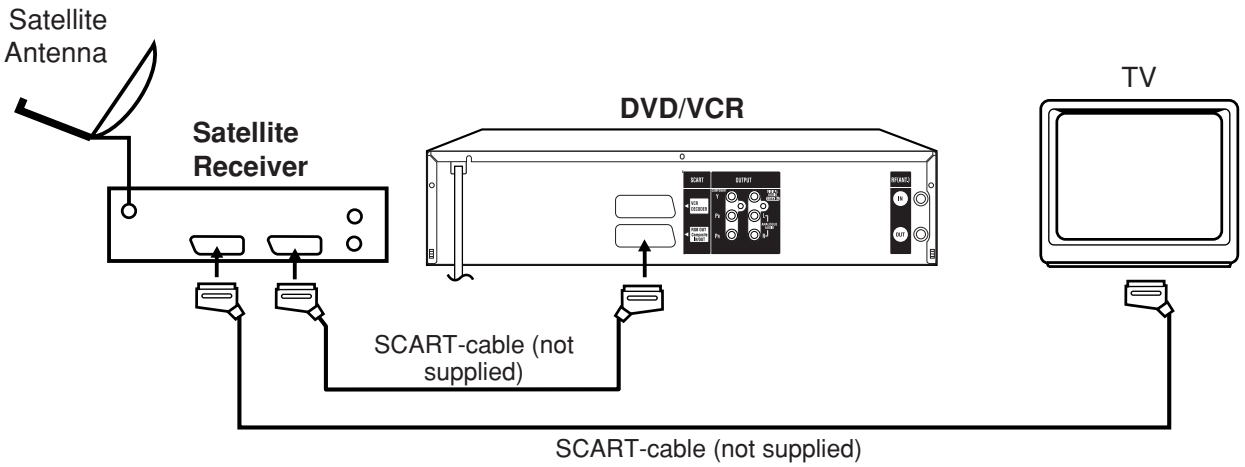
ENGLISH

Playback connection

The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of SCART socket.

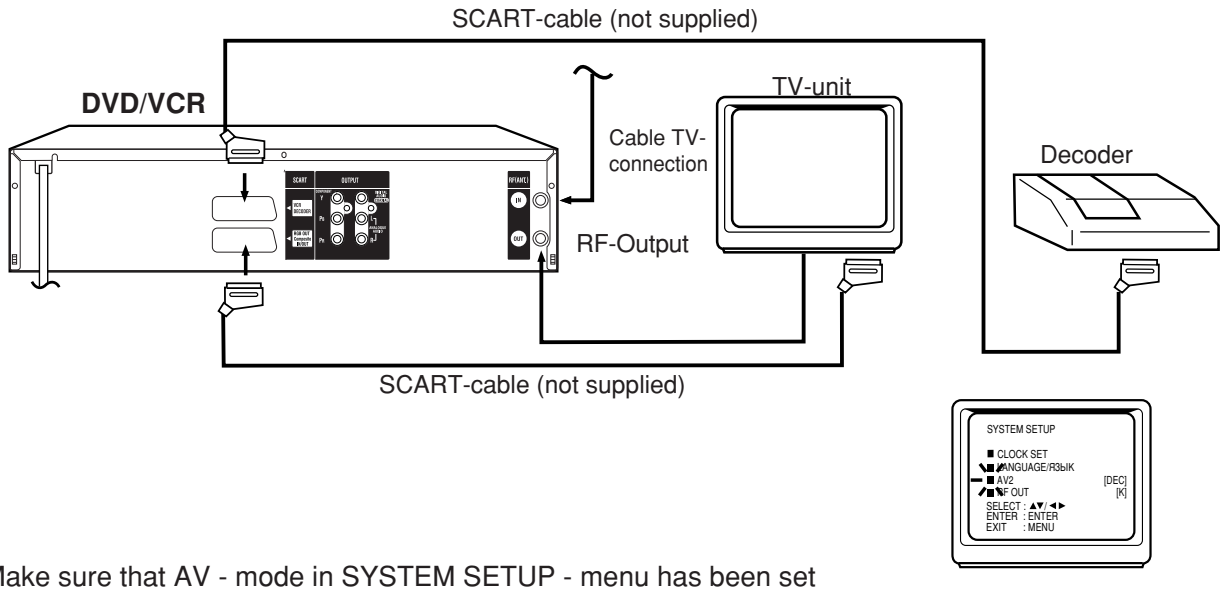
Connection to a Satellite Receiver

If a Satellite Receiver is used, we recommend the following configuration:



To record from Satellite Receiver press **AUX** on the remote control of DVD/VCR. "L1" will appear on the front display. Select the desired TV-program at Satellite Receiver.

Connection to a Decoder (for Premiere Programs)



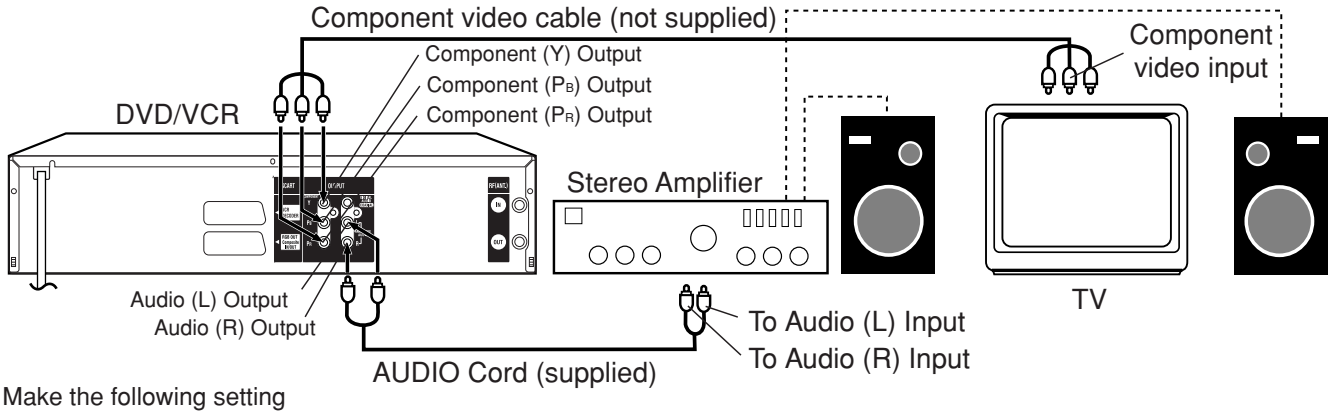
Note: Make sure that AV - mode in SYSTEM SETUP - menu has been set to ⌜DEC⌟.
If you set to [AV], the output signal from the decoder will be seen on the TV while the DVD/VCR is turned off.

Component video outputs/inputs

■ **PROGRESSIVE outputs/inputs**
Some TVs or monitors are equipped with component video inputs that are capable of reproducing a progressively scanned video signal. Connecting to these inputs allows you to view the highest quality pictures with less flicker.

■ **INTERLACED outputs/inputs**
Some TVs or monitors are equipped with component video inputs. Connecting to these inputs allows you to enjoy the highest quality DVD picture playback.

Connecting to an audio system and TV equipped with component video inputs



• Make the following setting

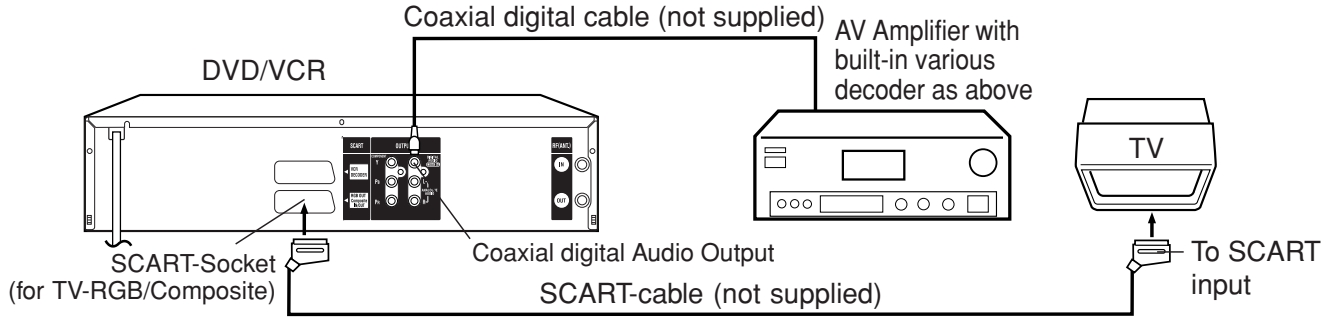
On-screen display / TV	See Output selection (P.58).
Interlaced inputs	Component
Progressive inputs	Progressive

Notes:
- Actual labels for component video inputs may vary depending on the TV manufacturer. (ex. Y, R-Y, B-Y or Y, CB, CR)
- In some TVs or monitors, the colour levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV or monitor for optimum performance.

Note:
In connecting to a TV that are not capable of reproducing a progressively scanned video signal using the component sockets, do not select "Progressive" in "Output" menu. If you do it, the component video outputs does not feed the correct signals and you can not see any picture (see page 58).

Connect to an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the Coaxial Digital Output.
Use this connection to connect an:
- **AV amplifier with built-in *Dolby Digital decoder**
- **AV amplifier with built-in *DTS decoder**



Notes:
- The COAXIAL jack is useful only for DVD section.
- DTS audio will be output only from the COAXIAL output. To hear DTS audio, DTS-Decoder is necessary. When playing DTS-encoded CDs, only noise will be heard from the speakers or analogue stereo outputs.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.

ENGLISH

Setting the TV to the RF-Channel

We recommend that television and DVD/VCR are being connected with a scart cable.
In this case, the setting of RF-channel is not necessary. Picture and sound of video cassette will be transmitted to television through the scart cable automatically. Please read the next page.

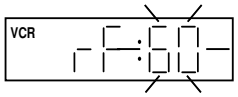
In case of no scart cable connection, you must set the television to the RF-channel. Pay attention to the following notice:
A built-in TV-broadcast in DVD/VCR can do the video playback through the supplied antenna cable. This broadcast is sent on UHF, channel 60. To receive this broadcast, you must tune your television to channel 60 in UHF-band. (see step 2)

In case a broadcast has already sent to channel 60 in your area or you connect an additional equipment (e.g. Satellite receiver) with a coaxial cable (without a scart cable), you must tune the sending channel in DVD/VCR (see step 3). In your television store the both equipment (the DVD/VCR and the satellite receiver) to 2 different program positions.

Example: Your satellite receiver is sent to channel 60. You tune the DVD/VCR to channel 64 (see step 3).
(If your DVD/VCR is also sent to channel 60, interference will occur.)
In your television store the channel 60 to e.g. program position 3 and store the channel 64 to e.g. program position 4. Note that the program position 4 must be suitable for video-playback especially. Please see the owner's manual for your television. If the playback picture is often distored, you must select the other program position for DVD/VCR.

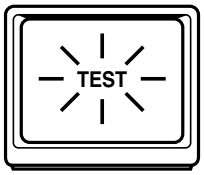
Preparation
- Turn on the TV.
- Press **VCR** to select the VCR mode.
- Make sure the power of DVD/VCR has been **turned off**.

1 Press **ON/STANDBY** on the DVD/VCR and hold it until the display shows rF:. The number next to rF: is the channel in UHF-band to which you must tune your TV-set.



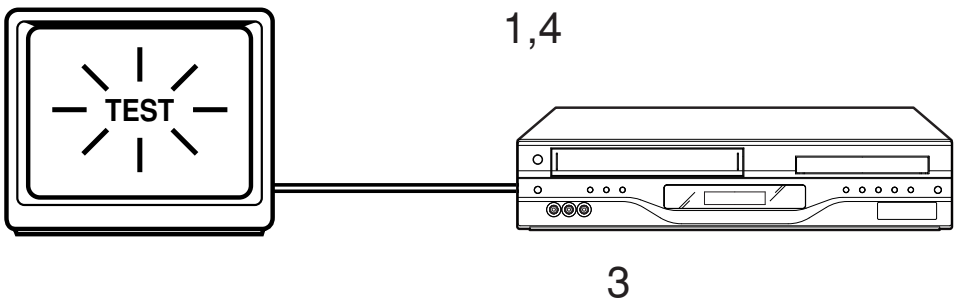
2 Switch your television to the program position on which the video playback is seen. Start the channel search of your television until “TEST” appears. Store this tuning in television like also the case of the reception for normal television-channels you would store.

If you want to use your DVD/VCR, switch your television to this program position.



3 If there is interference in the picture (you see 2 programs simultaneously or what is called Ghosts), change the sending channel in DVD/VCR. To do this, go back to the step **1**. Use **CHANNEL** button on the DVD/VCR to change the number next to the rF:. Then return to step **2** and tune the television newly.

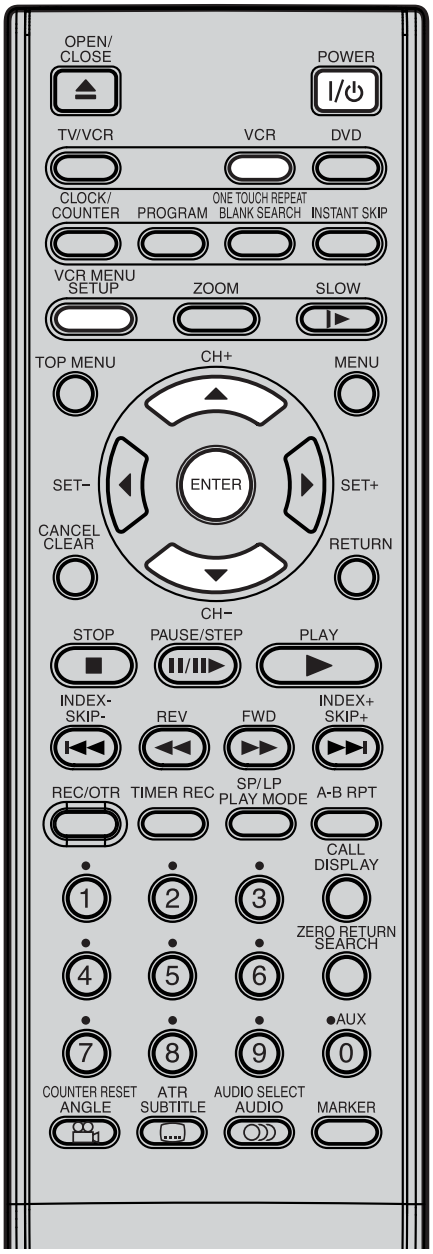
4 Press **ON/STANDBY** on the DVD/VCR to turn off the DVD/VCR.



Note:
If you receive one TV-program on channel 59, 60 or 61, the interference can be occurred to the built-in TV channel in DVD/VCR. If you use a scart cable for the transmission of picture and sound, you can cut off the built-in TV-program. Then the video playback through the supplied antenna cable is not possible any more. Press **CHANNEL** repeatedly (at step 1) until OFF will appear.(OFF appears after 69 or before 23)

Setting the On-screen language

Turn on your TV and select the AV-Program position, on which you have already set for your DVD/VCR. (it will happen automatically by Scart-cable connection). So you can follow the setting on TV screen.



Notes:

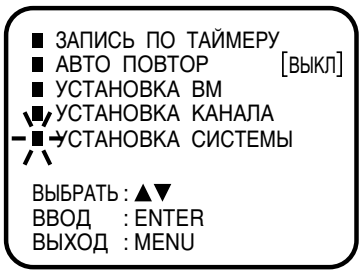
- **If the unit does not operate properly, or No key operation (by the unit and/ or the remote control): Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.**
- If no buttons are pressed for more than 60 seconds, the MENU screen will return to normal TV-operation automatically.

Preparation:

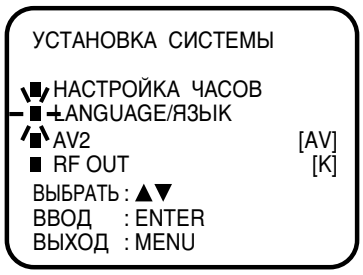
- Press the I/⏻ button to turn on the DVD/VCR.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

You can choose from two different languages (English or Russian) for the on-screen displays.

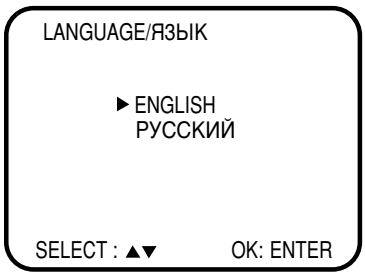
1 Press **VCR MENU**. Press ▲ or ▼ to select the "УСТАНОВКА СИСТЕМЫ" menu, then press **ENTER**.
If you use the unit for the first time and press **VCR MENU**, instead of the main menu screen on the right the "LANGUAGE" set up menu screen in step **3** may appear.



2 Press ▲ or ▼ to select the "LANGUAGE" option, then press **ENTER**.



3 Press ▲ or ▼ to select the desired language: English or Russian (РУССКИЙ), then press **ENTER**.



4 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

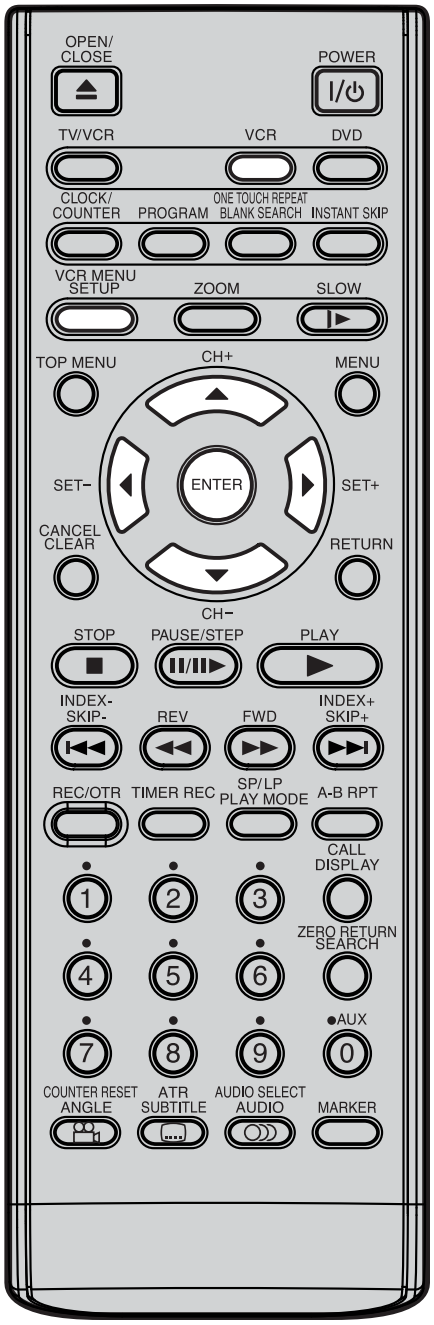
ENGLISH

Sound system selection

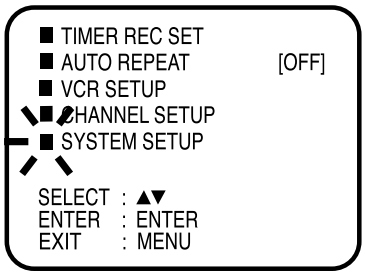
Set the Sound System according to your TV set or residential area.

Preparation:

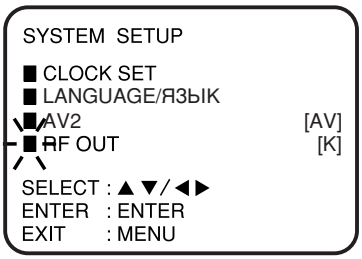
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)



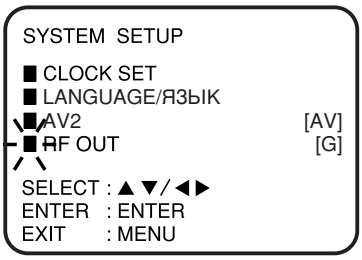
1 Press **VCR MENU**. Press ▲ or ▼ to select SYSTEM SETUP, then press **ENTER**.



2 Press ▲ or ▼ to select RF OUT.



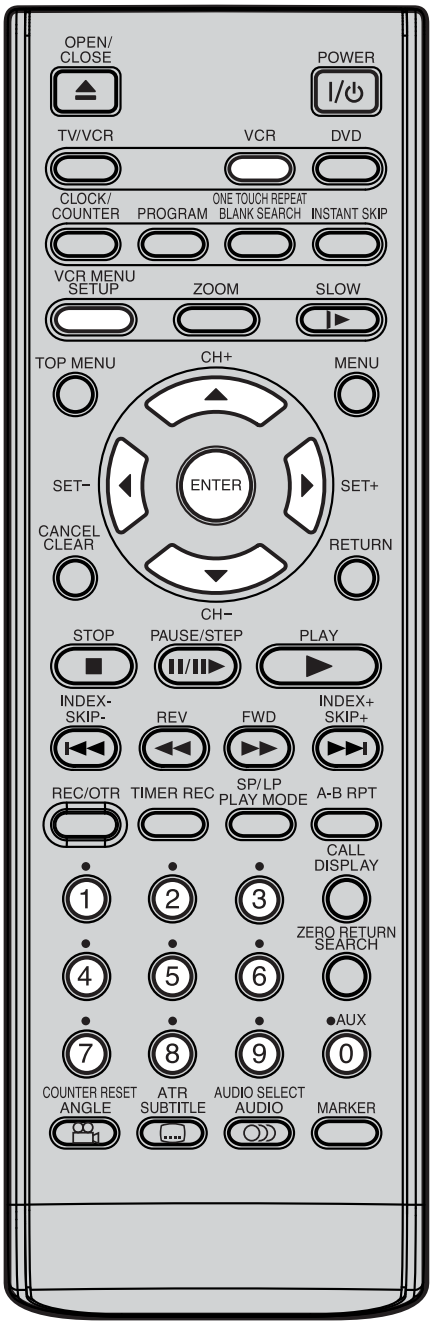
3 Press ◀/▶ or **ENTER** to select the Sound System [G], [K] or [I] according to your TV set.



4 Press **VCR MENU** repeatedly to return to the normal screen.

Clock setting

Your DVD/VCR is fitted with a 24 hour clock.
You must set the date and time for timer recordings.



Note:
In case of a power failure, the clock will continue to operate for another 30 minutes with quartz-controlled precision. To indicate that the power failure has lasted for an excessive period of time "--:--" will appear on the display. In this case readjust time and date.

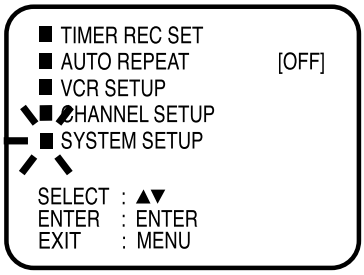
Preparation:

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

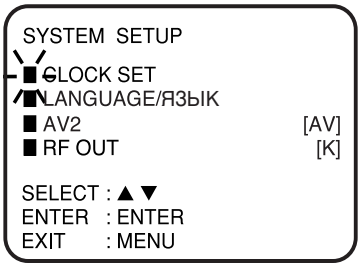
Example: Setting the clock to "11:30" October, 29 (SAT), 2005.

1 Press **VCR MENU**. The VCR menu screen will appear.
If the clock is not set, SYSTEM SETUP menu of step **3** will appear automatically.

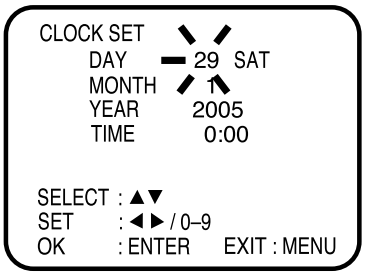
2 Press ▲ or ▼ to select SYSTEM SETUP, then press **ENTER**.



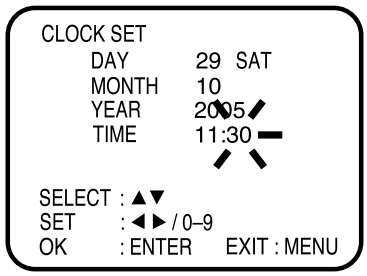
3 Press ▲ or ▼ to select CLOCK SET, then press **ENTER**.



4 Press ◀ or ▶ repeatedly or **number buttons** until “29” appears. Then press ▼.

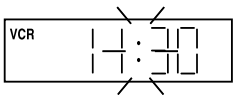


5 Set the **month**, **year**, **hour** and **minute** as in step **4**.
Then press **ENTER**.
- In case of an erroneous input, press ▲ to go back to previous step and enter again.



6 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

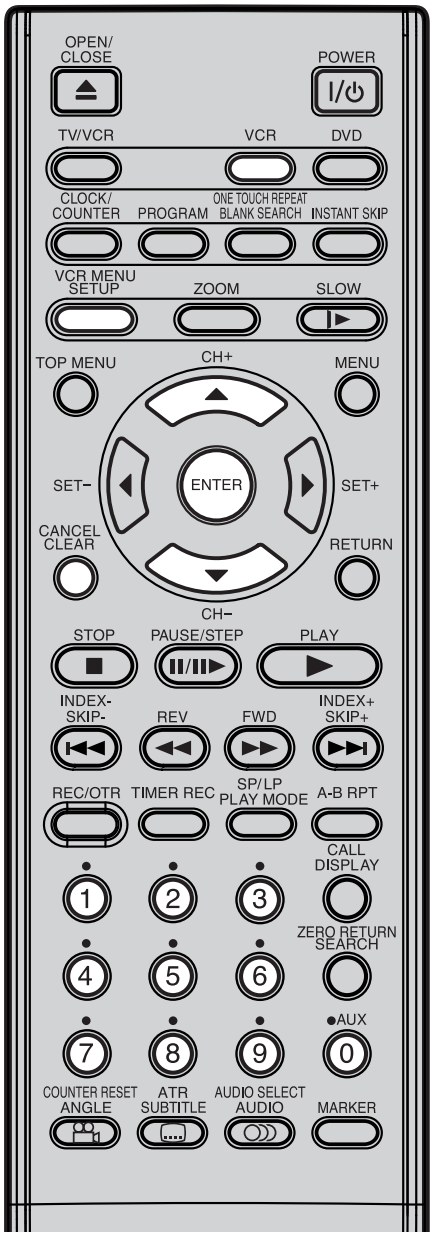
7 The clock will begin operation.



ENGLISH

Automatic TV station presetting

Your DVD/VCR has one built-in tuner to receive the broadcast. Before you record one TV-Broadcast, you must set and preset the whole of the broadcasts. This DVD/VCR can preset up to 80 broadcast.



Notes:

- TV reception interference or power failure may result in Automatic station presetting malfunctions. In such a case repeat the setting procedure from the beginning.
  However, you cannot receive the necessary broadcast yet, try to preset the broadcast manually. (See page 22.)
- When the unit is in the auxiliary input mode, you cannot preset channels.

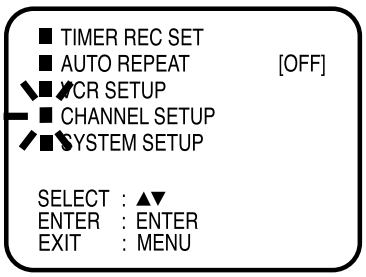
Automatic station presetting

All stations will preset in sequence available in your area.

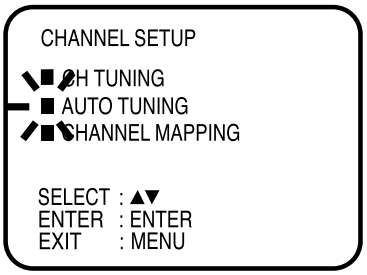
Preparation:

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

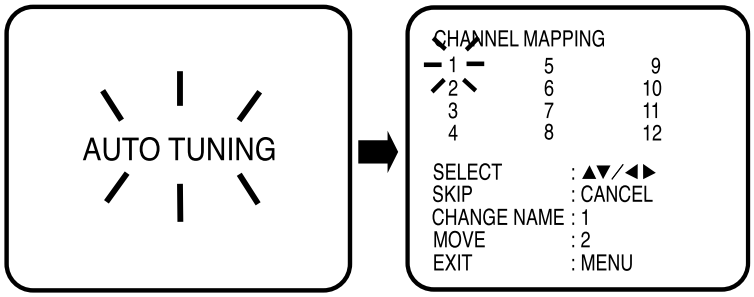
1 Press **VCR MENU**.
Press ▲ or ▼ to select CHANNEL SETUP. Then press **ENTER**.



2 Press ▲ or ▼ to select AUTO TUNING.



3 Press **ENTER**.
The DVD/VCR will begin searching and setting with early stored channel, the number is increased by one into memory all the broadcasting channels available in you area (VHF-L, VHF-H, UHF). While setting channels, AUTO TUNING appears. When the setting finished, the CHANNEL MAPPING menu will appear.



4 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

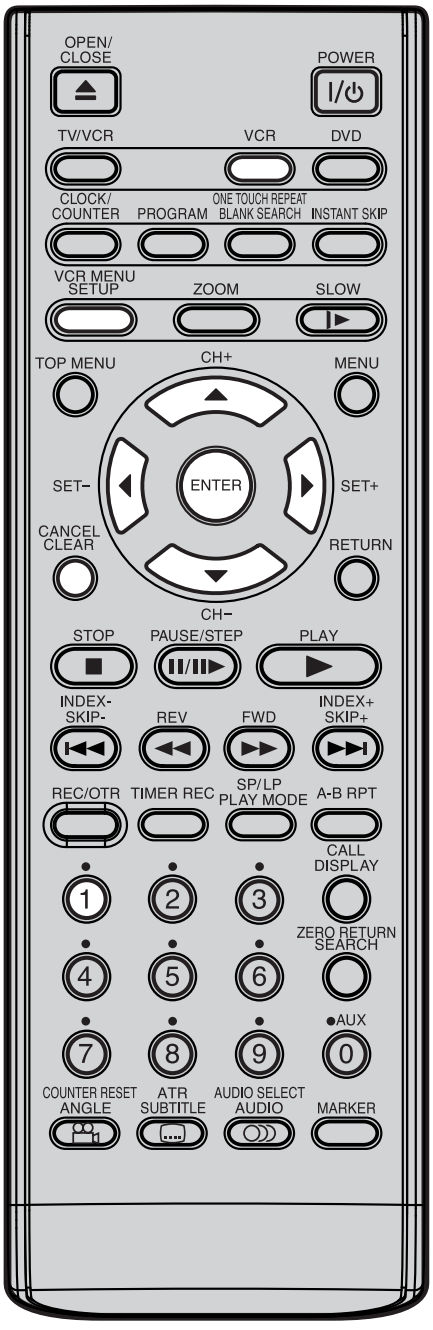
To skip a channel position

Unwanted channels can be skipped so that they cannot be called up by pressing **CH +/–**. Select the 29, then press **CANCEL**. This channel's number will be flashing. That way you can cancel further channel one after the other.

Note: To cancel skipping, select the skipped channel using **number buttons**, then press **CANCEL**. The channel No. will stop blinking, and the channel No. can be selected again using **CH +/–**.

Changing TV station names

For a number of TV stations (such as MTV) no name code will be displayed because these TV stations do not provide the necessary information. You can enter the respective names yourself. Moreover, unwanted station codes can be changed by the user.



Note:
When a wrong character is entered, press **CANCEL** and enter the correct character.

Preparation:

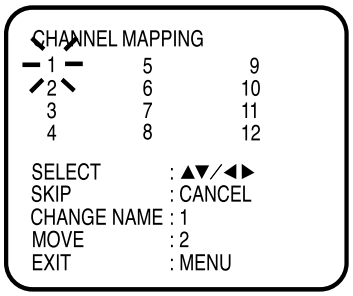
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

Example: MTV is assigned to station No. 10, but the code "MTV" will not be displayed and will also not appear in the table.

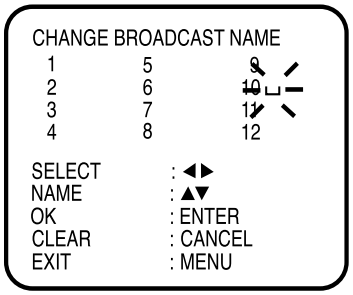
1 Select the "CHANNEL MAPPING" in Menu-screen in the same way as the steps **1** ~ **2** on page 18. Then press **ENTER**.

2 Press ▲/▼ or ◀/▶ repeatedly until the station number position to be named blink.

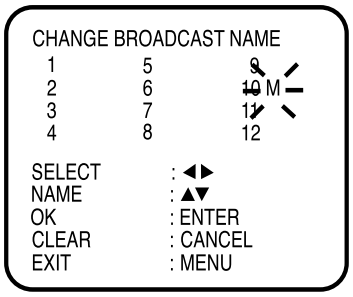
- If you want to turn over the page when the blinking spot is in the left or right edge of on-screen, press ◀ or ▶ repeatedly until the next page's 12 stations appears.



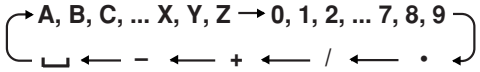
3 Press **number button** "**1**". The first display line will change to "CHANGE BROADCAST NAME".



4 Press ▲ or ▼ repeatedly until the desired character appears. Then press ▶. Use ▲ or ▼ to select the next character. Then press ▶. Up to four characters can be used to create a station name. The character "␣" stands for a space.Then press **ENTER**.

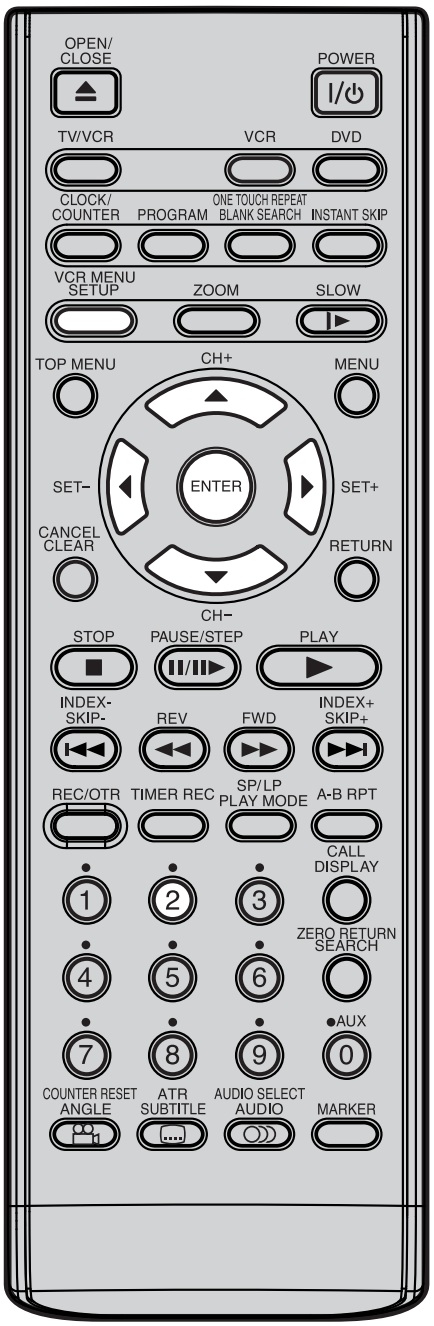


Each press of ▲ will change the screen display as follows.



5 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

Mapping TV stations



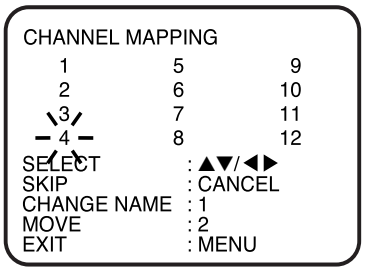
TO MOVE THE TV STATION TO ANOTHER CHANNEL POSITION

EXAMPLE : Move the TV station from position 4 to position 6.

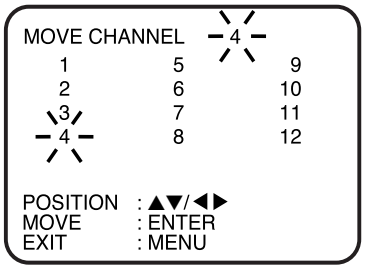
1 Press **VCR MENU**. Press ▲/▼ to select the CHANNEL SETUP, then press **ENTER**.

2 Press ▲/▼ to select the CHANNEL MAPPING, then press **ENTER**.

3 Press ▲/▼ or ◀/▶ to select the TV station to be moved.

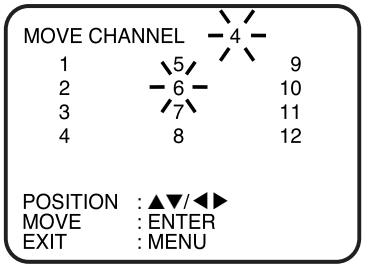


4 Press **number button** "**2**". to select the MOVE CHANNEL option.



5 Press ▲/▼ or ◀/▶ to select the position number to which the selected TV station is to be moved, then press **ENTER**.

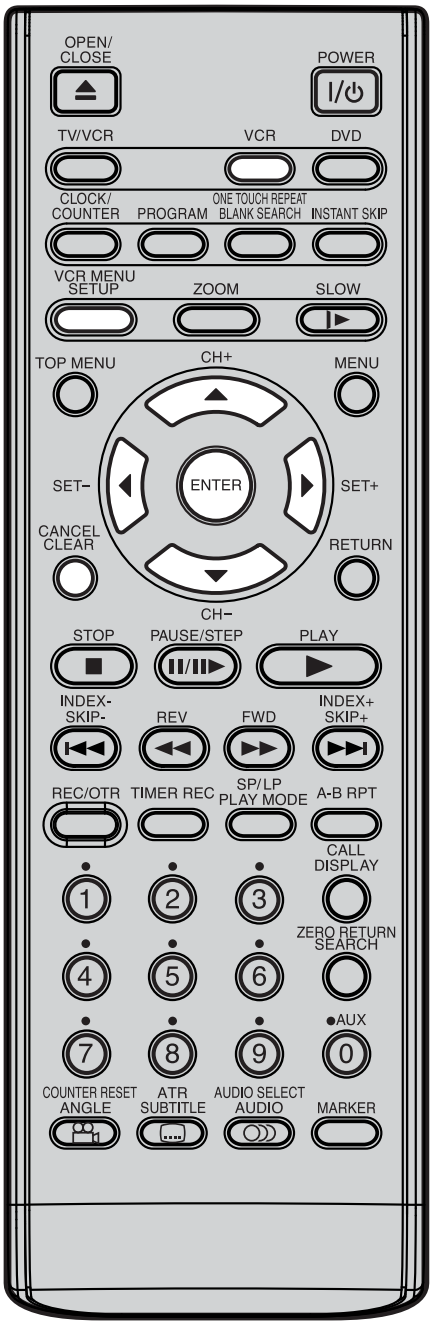
Press **VCR MENU** to return to the normal screen.



NOTE:
"WAIT" will blink on the screen whilst the station is being moved.

Skipping unwanted TV stations

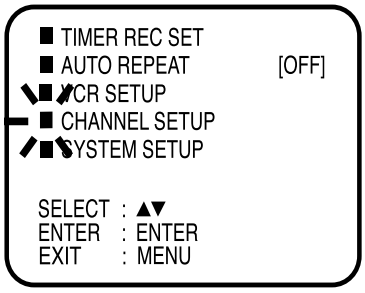
(Skip those TV stations that are not wanted to be selected by pressing the CH+/–)



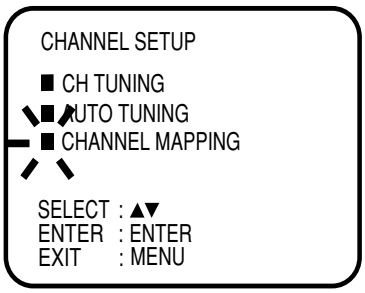
Preparation:

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

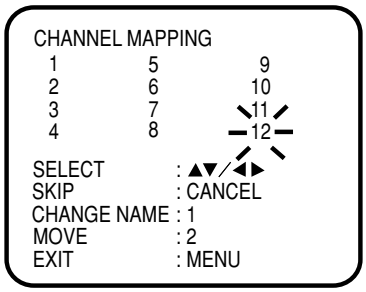
1 Press **VCR MENU**. Press ▲ or ▼ to select CHANNEL SETUP. Then press **ENTER**.



2 Press ▲ or ▼ to select CHANNEL MAPPING. Then press **ENTER**.

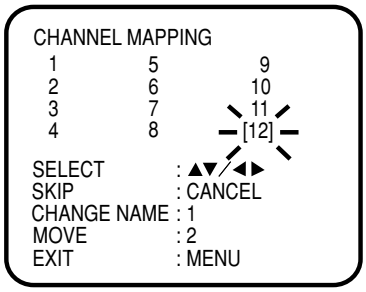


3 Press ▲/▼ or ◀/▶ repeatedly until the TV station to be skipped blinks.



4 Then press **CANCEL**.
The number to be cancelled (e.g. 12) will be bracketed.

Canceling the skip function:
Press ▲/▼ or ◀/▶ repeatedly until the skipped TV station blinks, then press **CANCEL**. The brackets will disappear.

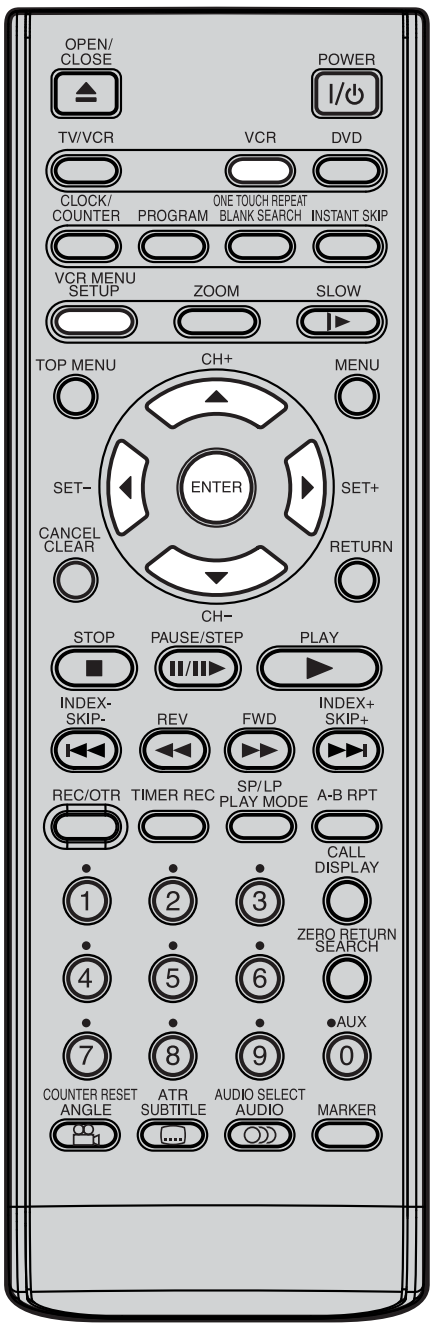


5 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

ENGLISH

Manual TV station presetting

The Auto CH Memory function (See page 18) memorizes all broadcasts to the suitable CH positions.
However some broadcast may not be memorized due to weak signal. In this case, use manual tuning function.



Note:
Occasionally, the auto search might catch a weak signal and stop. If the TV station signal is weak, you shouldn't store this station.
In this case, restart the auto search using ▶ or ◀.

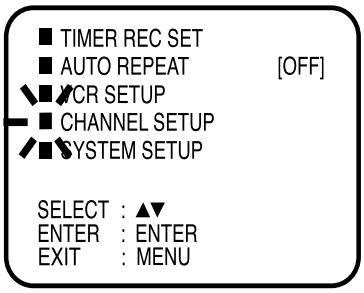
Manual station presetting
You activate the auto search function until your preferred station is tuned in. Then you memorize this station into the chosen channel memory. Repeat this procedure for each station.

Preparation:

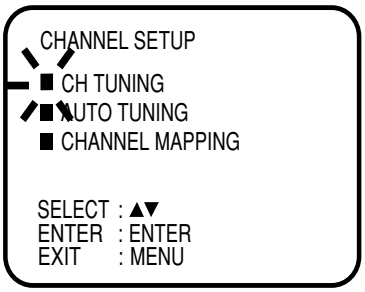
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

Example: Preset one station on program position 5.

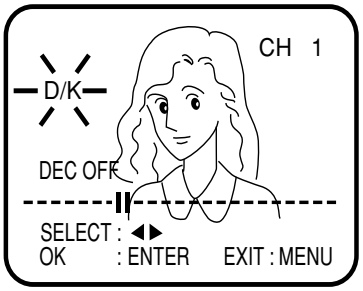
1 Press **VCR MENU**.
Press ▲ or ▼ to select CHANNEL SETUP. Then press **ENTER**.



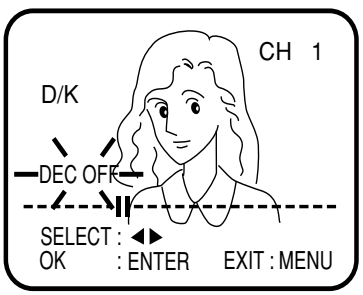
2 Press ▲ or ▼ to select CH TUNING. Then press **ENTER**.



3 B/G will blink. Press ◀ or ▶ to select [B/G], [D/K] or [I]. Then press **ENTER**.



4 DEC OFF will blink. Press **ENTER**. DEC OFF does not blink anymore. SEARCH will appear.



Note:
If you wish to store the PREMIERE manually, the decoder must be connected as on the lower of p.12.

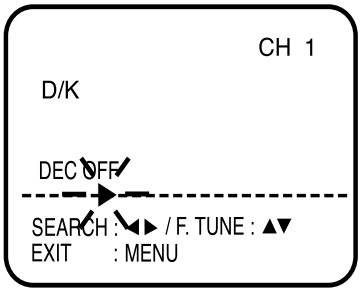
During DEC OFF is blinking, press ▶.
DEC ON will blink now.
Press **ENTER**.

The Fine Tuning adjustment

Under a normal receiving condition, the station-search will stops automatically at the best receiving position. That picture will appear without disturbance.
This receiving position will be memorized automatically. The Fine Tuning cannot be memorized additionally.

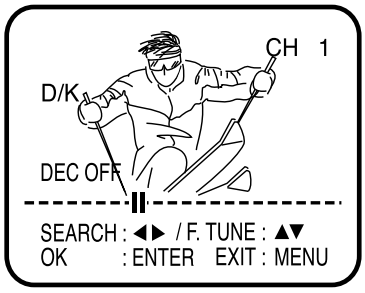
In rare case of bad receiving condition, the station-search might not stop at the best receiving position. That picture will appear with disturbance, e.g. waving lines.
Only in this rare case, use the Fine Tuning to tune the concerned station manually and exactly.
In step 6, press ▲ or ▼ until the station is adjusted to best position. Then press **ENTER**.

5 Press ▶ (higher frequencies) or ◀ (lower frequencies) once. The search starts. It stops at each broadcast automatically (" ▶ " change to " ❚❚ "). Press ◀ or ▶ repeatedly until the station you want appears. Only in case of receiving of the weak broadcast (drifting picture), search dose not stop. If you want to stop, press ▲/▼ or ◀/▶.

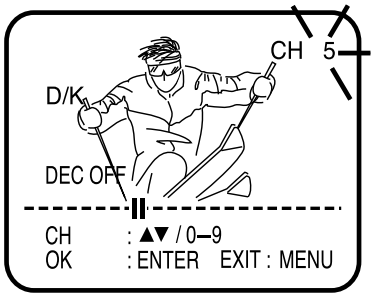


6 Please wait until OK :ENTER appears. It may take a few seconds.
Then press **ENTER**.

In the next step, the program position on which this station should be stored will be set.



7 Press ▲ or ▼ repeatedly until "5" displayed.
Or enter **5** with **10 number buttons**. Then press **ENTER**.



8 Repeat the steps **3** and **7** to preset other TV stations.

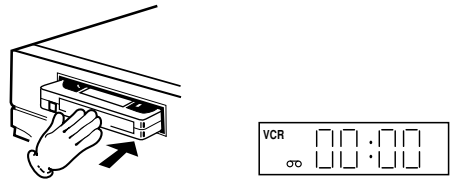
9 Press **VCR MENU** repeatedly until the TV picture appears on the screen.

Loading and Unloading a Cassette Tape

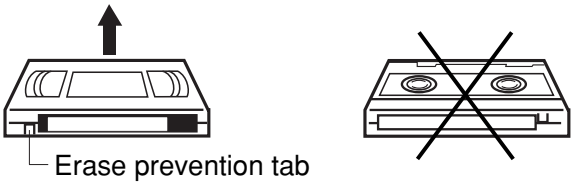
Use only video cassette tapes marked VHS.

Loading

Push the center of the tape until it is automatically inserted.



Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.

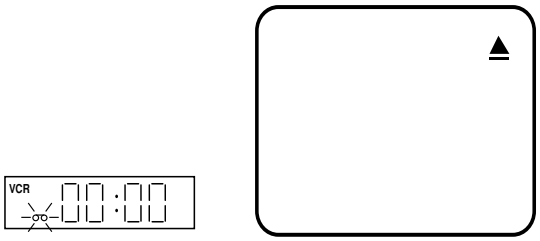


Automatic power ON
When you insert a cassette tape the DVD/VCR power will turn ON automatically.

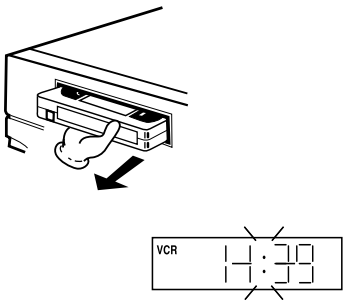
Automatic playback
When loading a cassette tape without an erase prevention tab, playback will start automatically.

Unloading

1 Press **EJECT** on the DVD/VCR. Even if a tape is being played, press this button only once.



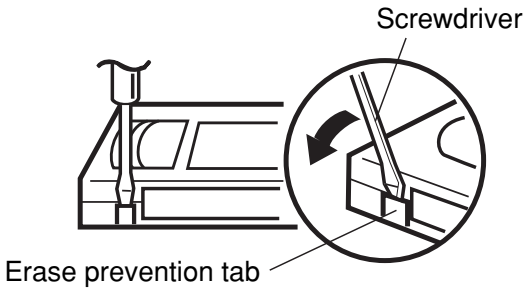
2 Remove the cassette tape.



Automatic tape eject
This VCR will automatically rewind the tape when the tape has ended. And when the tape is rewinded to its beginning, the cassette tape will be ejected automatically.

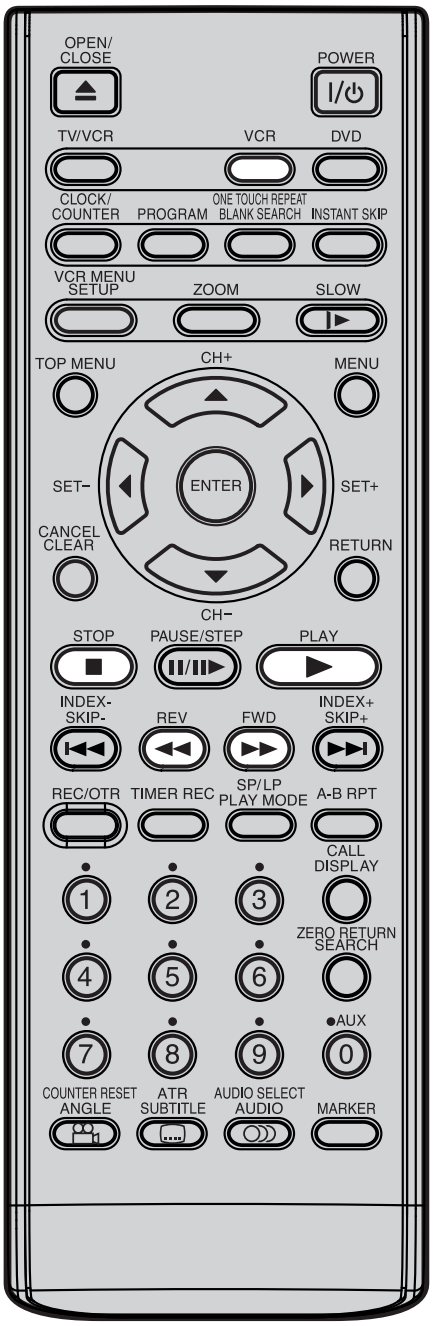
To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



To record again

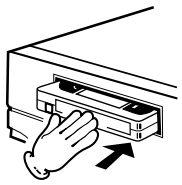
Cover the hole with a piece of adhesive tape.



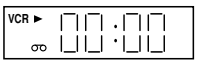
Preparation:

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

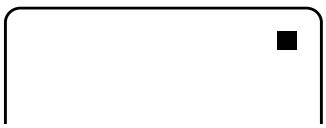
1 Load a prerecorded tape
(When loading a cassette tape without the erase prevention tab, playback will start automatically).

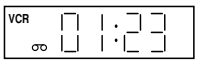


2 **To start playback**
Press **PLAY**.
Playback will start.
If the cassette has not loaded yet, ⌧ will blink for 4 seconds.



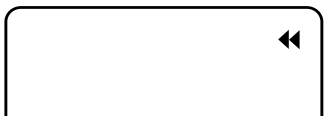
To stop playback
Press **STOP**.



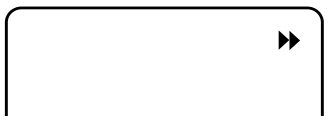


To rewind the tape or forward it rapidly
Stop the playback or recording with **STOP**.

To rewind the tape:
Press **REV**.



To forward the tape:
Press **FWD**.



To stop the tape-winding, press **STOP**. To switch to playback directly (without **STOP**), press **PLAY**.

Forward/Reverse picture search mode

When the tape is being winded, you can switch to picture search mode (see next page). To do this, press **REV** or **FWD** and hold it down. The unit will resume the tape winding as soon as the button is released.

NTSC video cassette playback

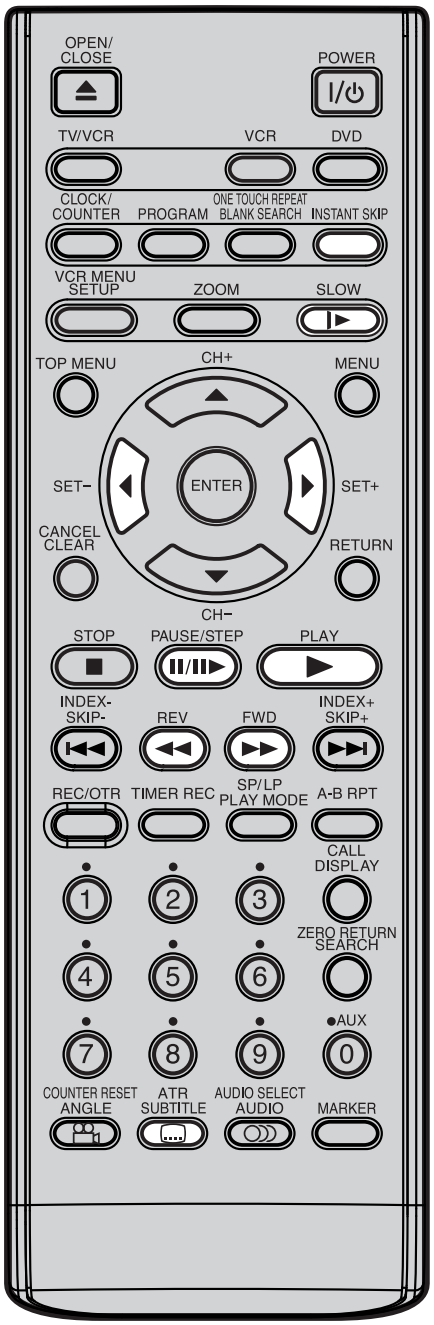
When using a pre-recorded NTSC video cassette tape, the connected TV set must operate with a 60 Hz vertical frequency. Otherwise the on-screen picture will be affected by vertical rolling. Even if your VCR set is capable of processing NTSC video signals, the picture may be shortened vertically (appearance of black bars at the top and at the bottom of the TV screen). The dubbing of a NTSC video cassette tape to a standard PAL VCR is not possible.

Notes:

- This VCR selects the playback tape speed SP or LP automatically.
- If a colour tape is of poor quality, the picture may turn black and white. In this event, set the COLOUR SYSTEM to “PAL” or “MESECAM” in the COLOUR SYSTEM menu (see page 37).

ENGLISH

Special playback



Notes:

- The audio output is muted during special playback.
- During picture search mode there will be noise bars which are caused by the system.
- The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

Picture Search

Reverse picture search function

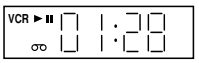
Press **REV** x 1 or x 2 during the playback.

Forward picture search function

Press **FWD** x 1 or x 2 during the playback.
To return to playback: Press **PLAY**.

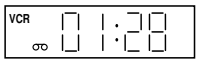
Still Picture

Press **PAUSE/STEP** during playback. To resume normal playback: Press **PLAY**.



Slow Motion

During playback press **SLOW**.
You can change the slow speed by the additional pressing of **SLOW**.
To return to playback: Press **PLAY**.

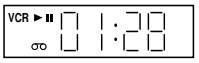


Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **SET +** or **–** to reduce the noise bars.
If the still picture jitters excessively, press **SET +** or **–** to stabilize the still picture.

Frame by Frame picture

During playback, press **PAUSE/STEP** one by one: The picture advances frame by frame.
To return to playback: Press **PLAY**.



Adjusting tracking condition

Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

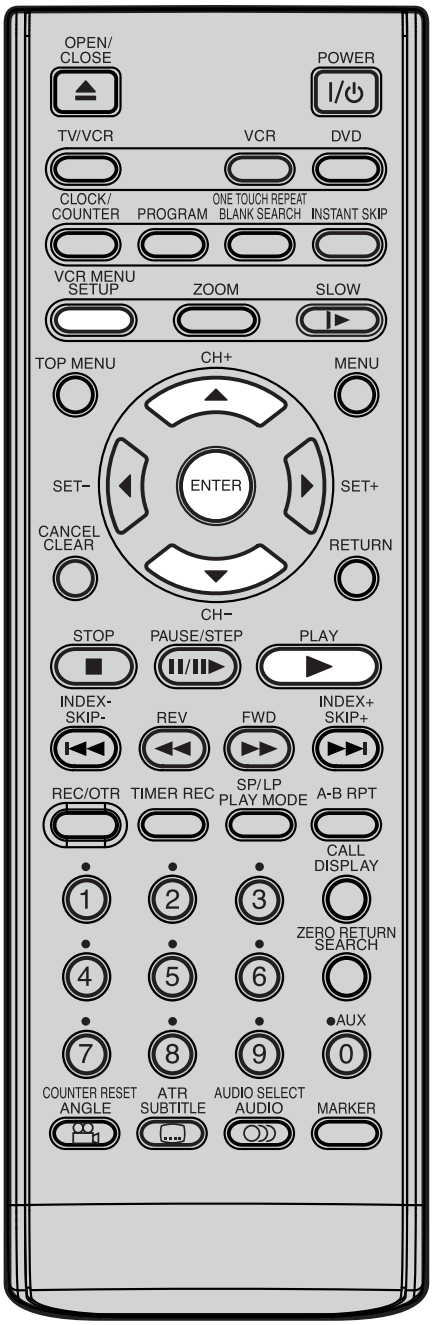
If automatic tracking cannot eliminate noises well during playback, press **SET +** or **SET –** to eliminate the noises. “MANUAL TR.” will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

To return to automatic tracking, press **ATR**.

Instant skip

Press **INSTANT SKIP** during playback. The DVD/VCR will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of **INSTANT SKIP** (maximum six presses) and then resume normal playback.

For example : 1 press: 30 seconds of tape
2 press: 60 seconds of tape
3 press: 90 seconds of tape

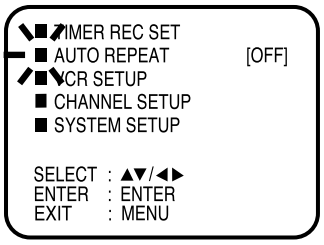


Note:
If the unit is turned off or starts recording, the repeat mode is cancelled.

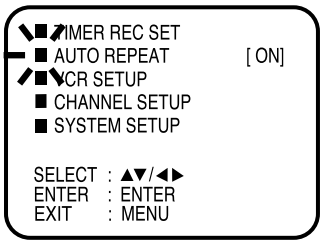
Normal repeat playback

The entire video tape will be played until its end. The tape will then automatically rewind to the beginning and the playback will be repeated.

1 Press **VCR MENU**. Press ▲ or ▼ to select AUTO REPEAT.



2 Then press **ENTER** to select [ON] or [OFF].
If [ON] is selected, the playback will be repeated endlessly.



3 Press **VCR MENU** until the menu screen is cleared.

4 To start the playback, press **PLAY**.
The playback will be repeated endlessly.

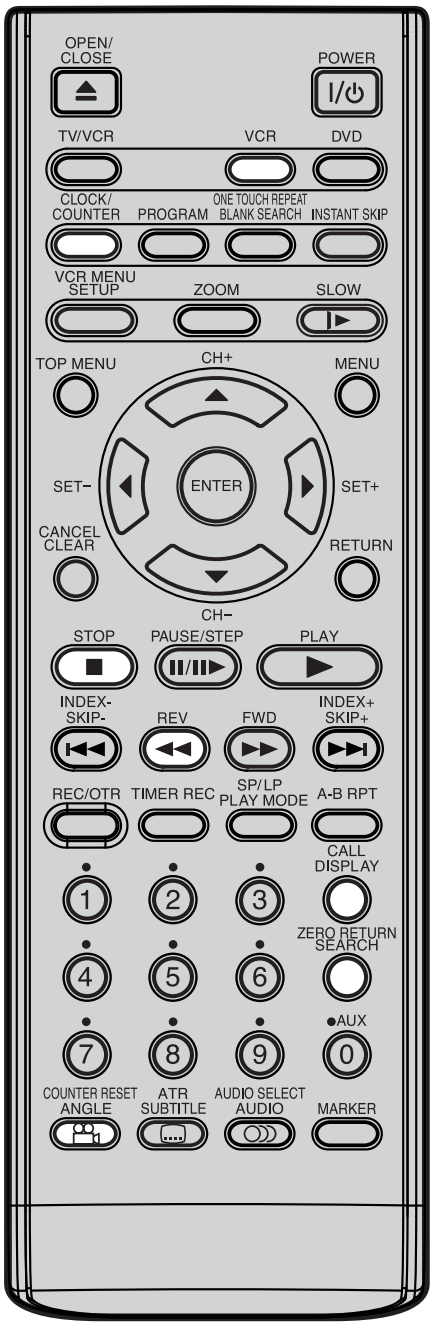
To cancel normal repeat mode:
Follow the above step **2**, then press **ENTER** to select the OFF position. Press **VCR MENU** to return to the TV.

ENGLISH

Counter Display

ZERO RETURN function

This function makes tape-rewinding stop at the counter 00:00:00 position automatically.



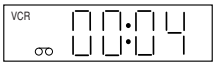
Notes:

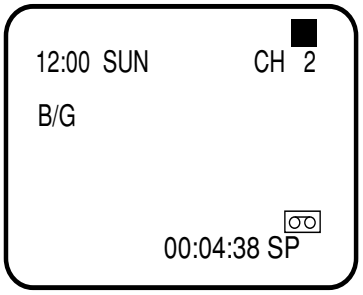
- When you load a video cassette, the display indication changes to "00:00".
- The counter display does not function on non-recorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter display stops.

Preparation

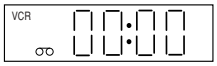
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

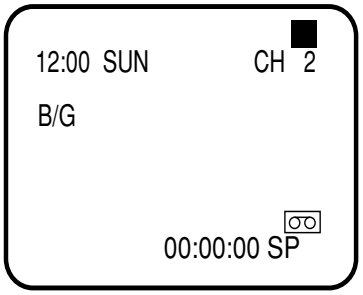
1 Press **DISPLAY**.
The counter display shows the tape running time during playback or recording.
The Recorder will indicate REC during recording.



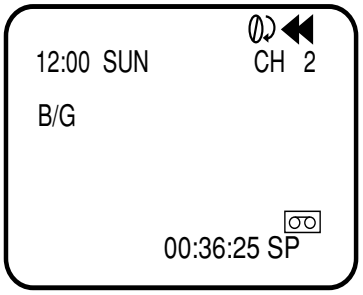


2 Press **COUNTER RESET** at the desired tape position. The counter display will be reset to the “00:00:00” position (e.g. the beginning of recording).



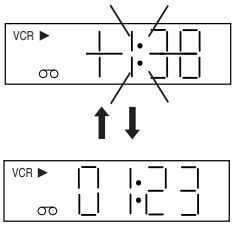


3 Press **STOP** when playback or recording is finished.
Press **ZERO RETURN**.
The tape will be rewinded or fast forwarded and automatically stop at the “00:00:00” position.



The CLOCK/COUNTER-button

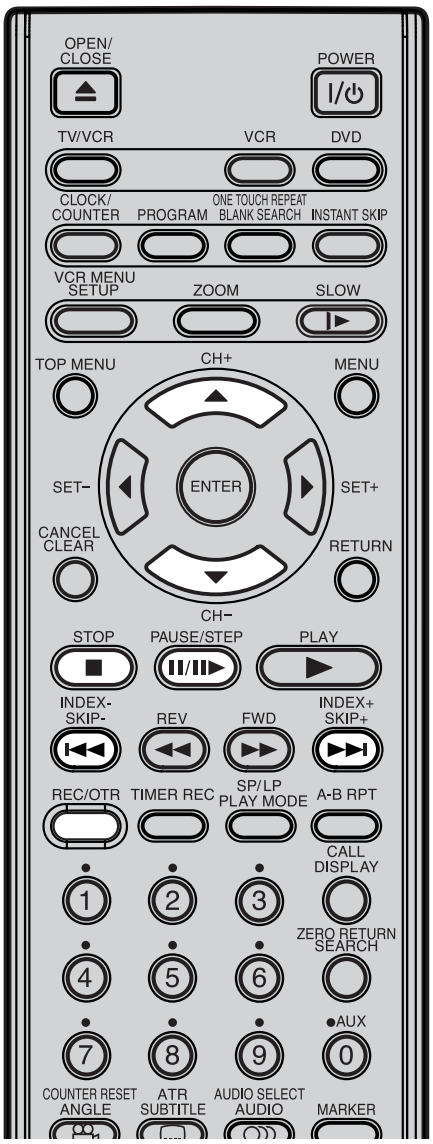
Press **CLOCK/COUNTER** during the playback. The clock and tape counter alternate with each other in the display.



Note:

You can set the tape counter to 00:00:00 with **COUNTER RESET** anytime. Therefore, the counter display can also indicate 00:00:00, even when the tape counter does not reach its beginning yet. Even if the tape counter indicates 00:00:00, it can be rewinded. If the tape was rewinded over the point of 00:00:00, the minus mark (–) appears in the counter display. Although the tape counter seems to forward when you press **REV**, in fact the tape is being rewinded. When the tape reaches the beginning, the tape-rewinding stops automatically.

Whenever a recording is begun an invisible index mark is recorded on the tape. These index marks are all identical, and each mark means: "Here starts a new recording". Every DVD/VCR equipped with the Video Index Search System (VISS) can locate these marks at the beginning of any recording.

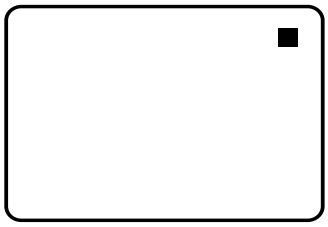


Notes:

- When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.
- INDEX marks may not be found if it is extremely close to the point where the search began.
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

Example: Indexing of TV commercials.

1 Start playback and wait until the end of the TV commercial is reached, then press **STOP**.

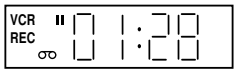


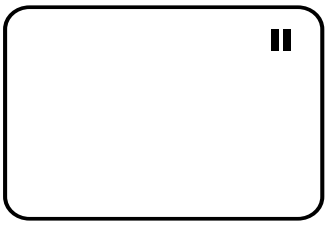
2 Press **REC/OTR** once. When the "INDEX" on-screen indication goes off, **STOP** may be pressed. This short recording process will be sufficient to set an index mark.
This will result in about 10 seconds of the TV commercials to be overwritten by another recording. Due to the system the end of this recording will be followed by a recording gap (noise signal) of approx. 5 seconds.

Recording several Index Marks

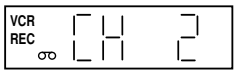
Due to the system only one index mark will be recorded at the beginning of a recording. If you intend to set several index marks during a single recording, follow the procedure below:

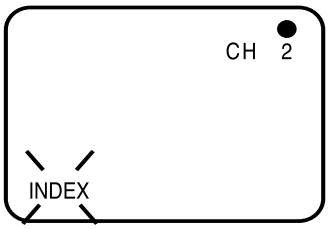
1 At the point of the recording where an index mark is to be set press **PAUSE/STEP**. The unit will switch to the recording pause mode.





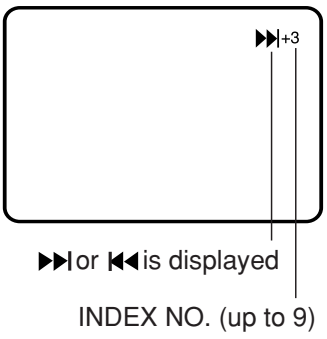
2 Press **CH +/–** repeatedly to switch back to the original TV program.
Press **PAUSE/STEP** to resume recording.





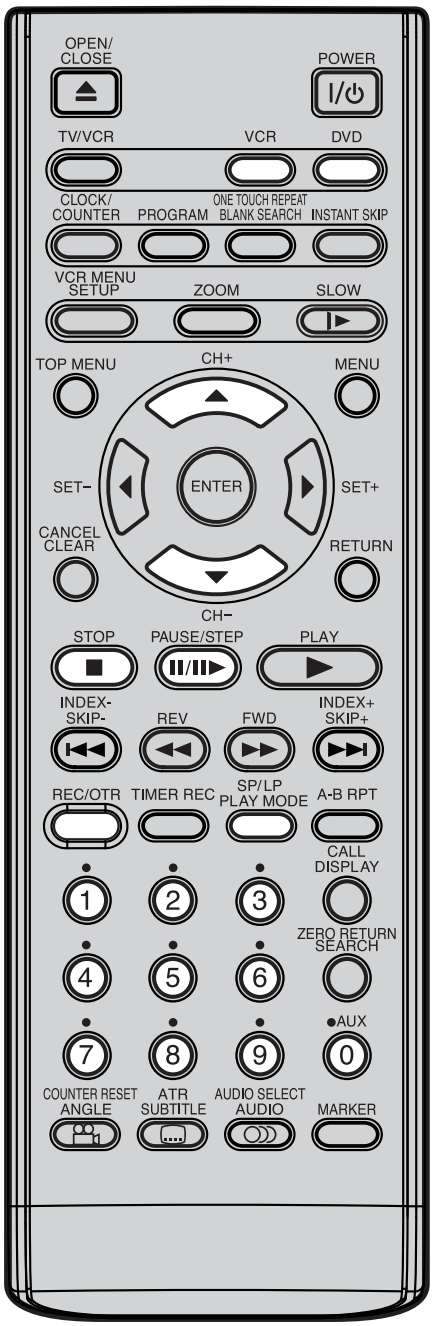
Index Search

Press **INDEX +** or **–** during stop or play mode.
For Succeeding programs:
Press **INDEX +**.
For Preceding programs:
Press **INDEX –**.
(Additional press increases the INDEX NO. up to 9.)
When the **INDEX +** or **–** is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically.
To stop the Index Search, press **STOP**.



ENGLISH

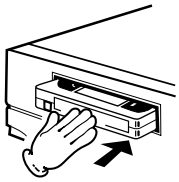
Recording a TV Program

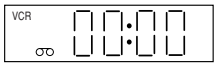


Preparation

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

1 Load a blank cassette tape with the erase prevention tab intact. (The DVD/VCR will automatically turn on.)

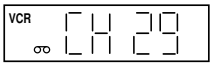




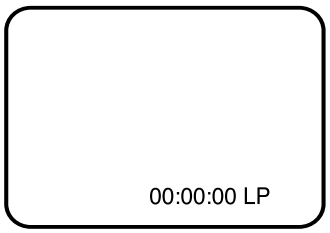
2 Select the program(e.g.29) you want to record with **CH +/–** or **number buttons**.

1~9 : e.g. 5 = press "**5**"

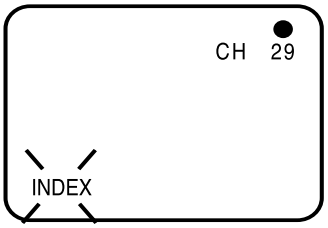
10~80 : e.g. 29 = press "**2**" and "**9**".

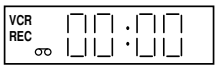


3 If a recording in Long Play mode is intended, press **SP**/**LP** to display "LP".



4 Press **REC**/**OTR** to start recording.

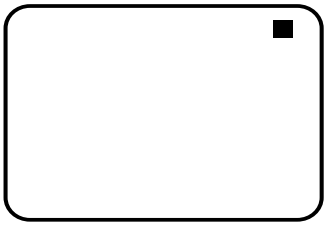


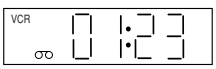


If the erase prevention tab is removed, the tape will eject when **REC**/**OTR** is pressed for recording. (see p.24)

To Stop Recording

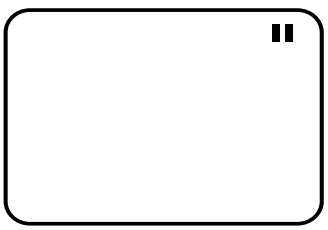
Press **STOP**.

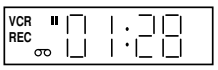




To Stop Recording Temporarily

To stop a recording for a short period of time press **PAUSE**/**STEP**. Press this button again if you want to resume the recording.





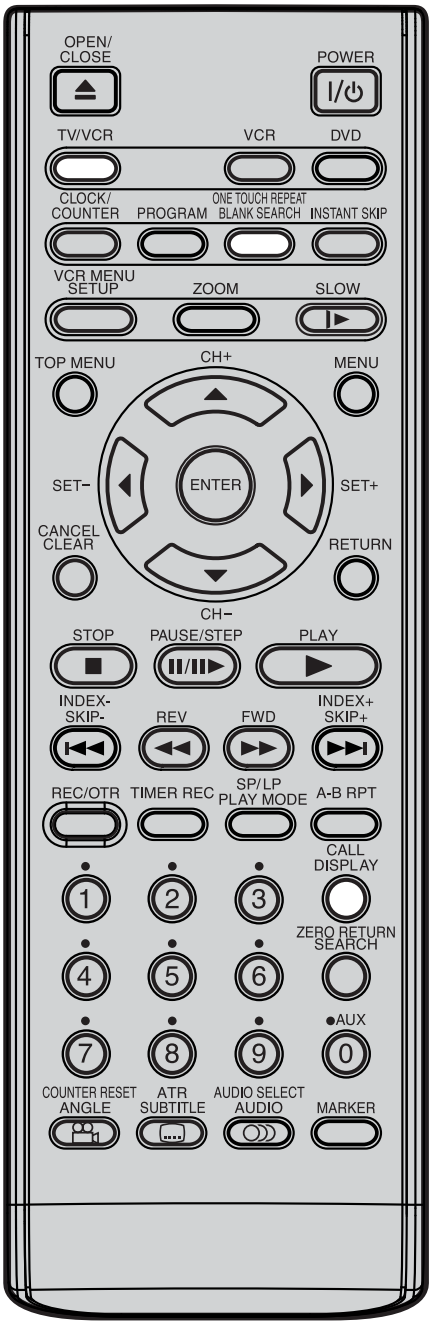
Attention:

A safety circuit turns the pause mode off automatically after 5 minutes, and the DVD/VCR will stop the recording mode.

Notes:

- Since the DVD/VCR has a built-in TV tuner the TV set may be turned off when recording. The TV set may only be used to check for accurate program adjustments or to monitor recordings.
- If you wish to watch the DVD playback during the recording on VCR, press **DVD** to change to DVD mode and perform the DVD playback (see page 40).

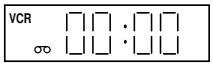
You can record a program using the TV receiver of the DVD/VCR and at the same time watch another program on the TV set using its receiver. As the DVD/VCR automatically switches the TV set the following points should be observed:



Auto Rewind Feature
The DVD/VCR will automatically rewind when the tape has ended (except during OTR and TIMER REC). It will also eject the cassette tape.

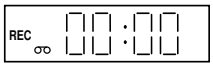
1 Press **TV/VCR** until "VCR" appears on the display. Select the program on the DVD/VCR you want to record. This program can be watched on the screen and recorded by the DVD/VCR.

"VCR" indicator goes on.



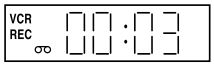
2 While the VCR is recording press **TV/VCR** until the "VCR" indicator on the display goes off. The TV set now displays the program of its built-in receiving module. Select the TV channel you want to watch on the TV set. Although the TV set now shows another program the DVD/VCR will continue recording the previously selected program.

"VCR" indicator goes off.



3 Using **TV/VCR** you can switch the TV screen between the DVD/VCR picture and the TV picture. If the "VCR" indicator is lit on the display, you will watch the DVD/VCR picture. This has no trouble on the recording.

"VCR" indicator goes on.

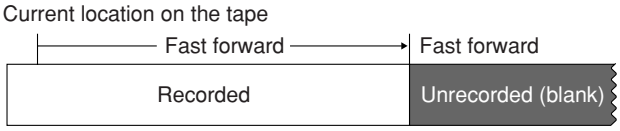


To find unrecorded (blank) areas on a tape

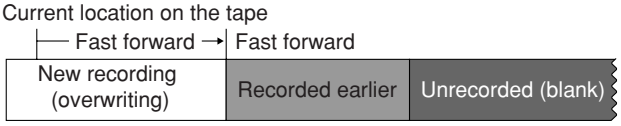
The DVD/VCR searches for blank sections of tape in the direction of fast-forwarding and automatically stops the tape when one is found.

Press **BLANK SEARCH**. The tape automatically stops at a blank section of tape.

<Example when a blank section of tape is successfully located>



<Example when a blank section of tape cannot be successfully located>

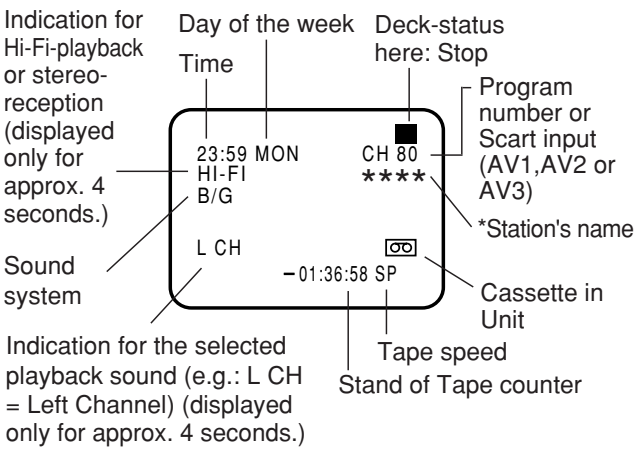


When the DVD/VCR searches for blank sections on an overwritten tape, it stops at the end of the newly recorded section. To locate a blank section, play the tape first to check the content and then press **BLANK SEARCH** again.

To Display VCR operation Status

Press **CALL**. The clock, day of the week and more informations will be indicated.

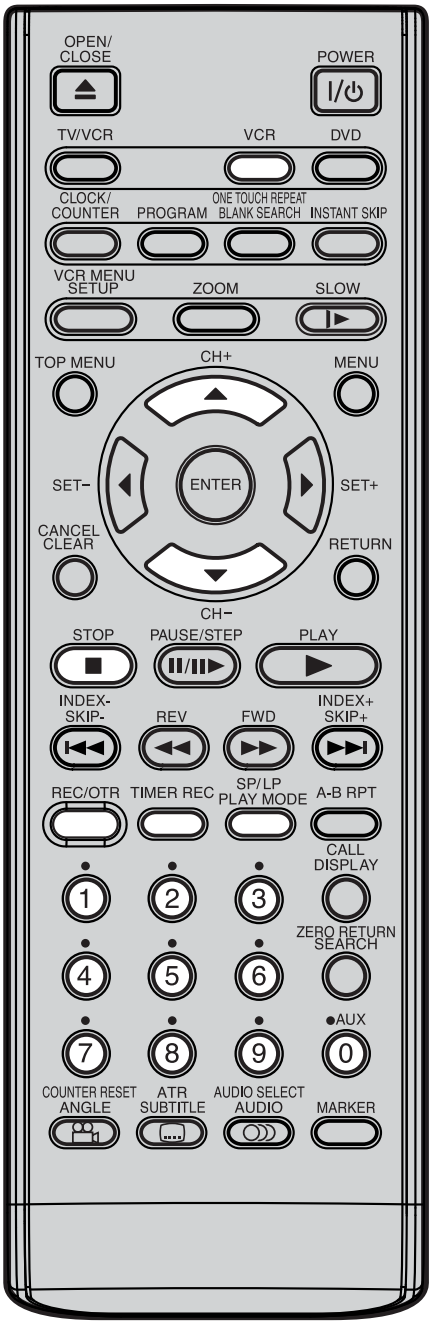
To cancel the indicating: Press **CALL** until all indicator disappear.



ENGLISH

One-Touch Timer Recording (OTR)

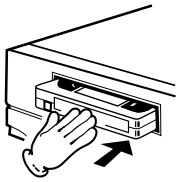
The one-touch timer recording feature provides a simple and convenient way to make a timed recording.

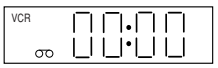


Note:
If the tape supply has not sufficed for OTR recording, the clock symbol (⏲) will blink at the tape-end and then VCR mode will change to DVD mode.
In this case, press **TIMER REC** to cancel the ⏲ blink or press **EJECT** on the DVD/VCR to remove the cassette tape.

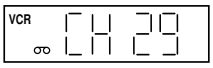
Preparation
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

1 Load a blank cassette tape with the erase prevention tab intact. (The DVD/VCR will automatically turn on.)

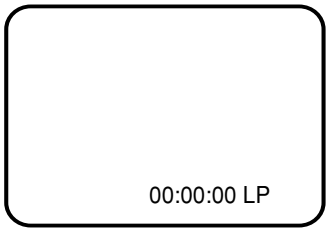




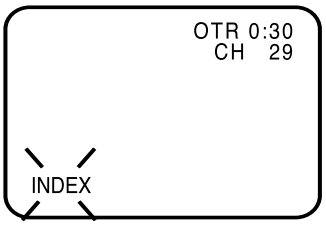
2 Select the program(e.g.29) you want to record with **CH +/–** or **number buttons**.
1~9 : e.g. 5 = press "**5**"
10~80 : e.g. 29 = press "**2**" and "**9**".

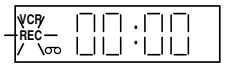


3 If a recording in Long Play mode is intended, press **SP**/**LP** to display "LP".



4 Press **REC**/**OTR** twice. The recording will start and stop after 30 minutes. Each additional press of **REC**/**OTR** will increase the recording time to a maximum of 6 hours (See table below).





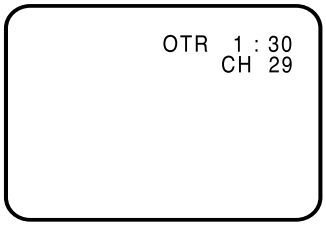
"REC" will keep blinking in the display.

Recording → 0:30 → 1:00 → 1:30
↑ ↓
6:00 ← 5:00 ← 4:00 ← 3:00 ← 2:00

If **REC**/**OTR** is pressed once during the recording, the remaining time appears on the screen. When pressed again, the recording time is extended to the nearest 30-minute or 1-hour interval.

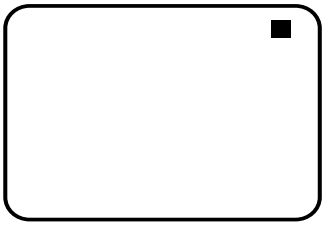
To Extend the Recording Time

Press **REC**/**OTR** repeatedly until the desired time appears on the display.

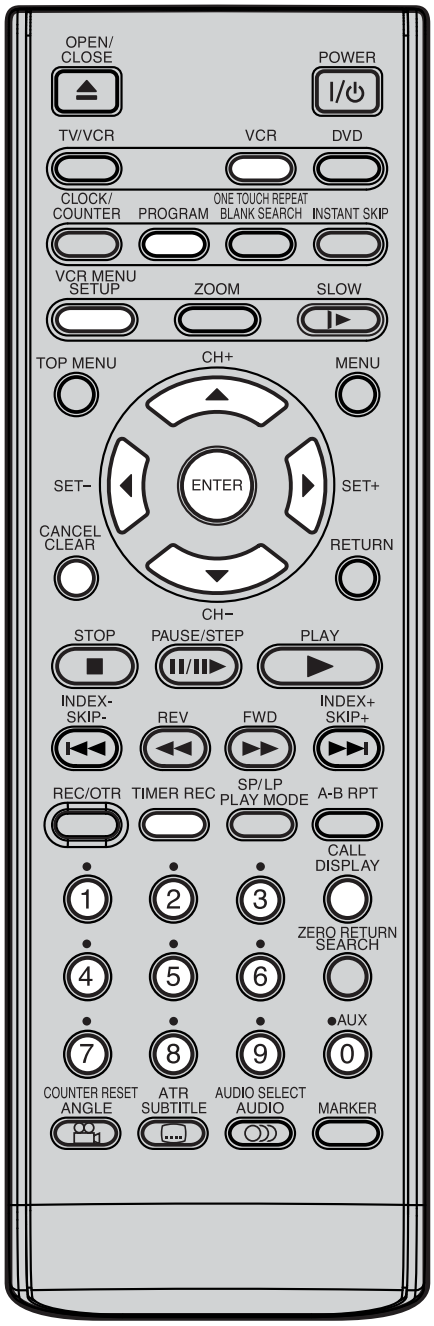


To stop the OTR

Press **STOP**.



Timer recording can be programmed on the TV-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.



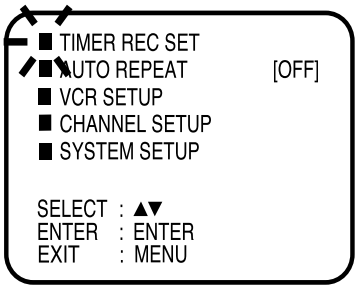
Note:
In the event of a power failure the data of the automatic recording will be maintained in the built-in memory for about 30 minutes. Also, the clock will continue to run for this period of time. Thereafter the data will be deleted. When the power resumes, the time display will change to "--:--" that the timer setting will have to be set.

Preparation

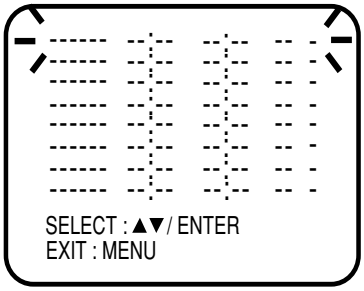
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)
- Load a video cassette with the erase prevention tab intact. Make sure with **CALL** that the time and date are correct.(see page 31).

Example: Timer recording for channel 1, 13:00 to 14:30 with Tape speed LP on timer program number 1.

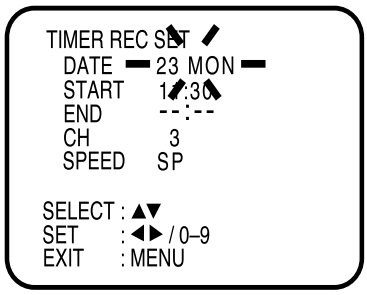
1 Press **VCR MENU**. Press ▲ or ▼ to select TIMER REC SET. Then press **ENTER**.



2 Each line stands for one program of the 8 memories. Select one line with ▲ or ▼. Then press **ENTER**.

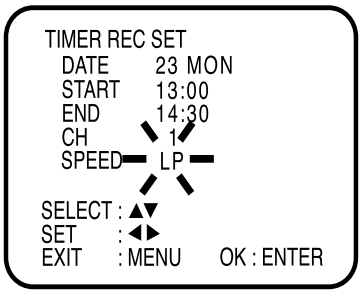


3 Set the desired **date** with ◀ or ▶ or **number buttons**. Then press ▼ to accept it.



4 Set the **Starting time (13:00)**, **ending time (14:30)**, **channel (1)** and **Tape speed (LP)** in the same way as the step **3**.

- In case of an erroneous input press ▲ to go back to before step and enter again.



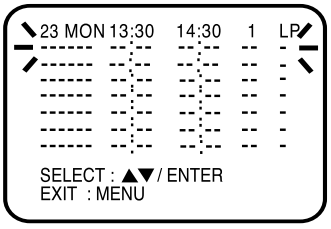
....to be continued to next page

ENGLISH

5 Press **ENTER** to accept them.

To enter other programs, repeat steps **2** through **5**.

- To return to the normal screen, press **VCR MENU** twice.



6 Press **TIMER REC**. The clock symbol (⏲) will appear on the display and the DVD/VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the Timer recording mode. If you do not use the DVD, turn the power off.

- If the clock symbol (⏲) blinks in the display in spite of the pressing of **TIMER REC**, the cassette may not have been loaded yet. (see page 24)
- If the cassette is ejected in spite of the pressing of **TIMER REC**, the erase prevention tab of the cassette may have been removed. (see page 24)

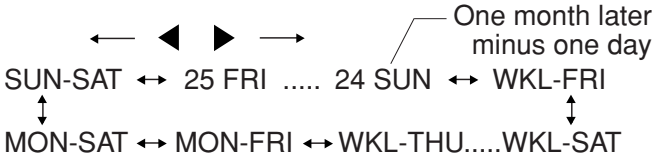
Notes:

- In case of the timer recording from the scart socket, proceed as follows: In step **4** press ▲ or ▼ repeatedly until the "CH" line blinks. Then press **AUX** repeatedly until “AV1” or “AV2” or “AV3” appears.
- If the clock symbol (⏲) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape supply. Press **TIMER REC** to cancel the timer program or press **EJECT** on the DVD/VCR to remove the cassette tape.
- During timer recording standby mode, the VCR mode cannot be selected. To use the VCR, press **TIMER REC** at first, then press **VCR** to change to VCR mode. After you use the VCR, press **TIMER REC** again to put the VCR into timer recording standby mode.

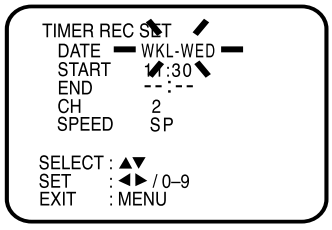
Timer Recording Special Case

Weekly (e.g. WKL-TUE: each Tuesday) or daily (e.g. MON-SAT: Monday to Saturday) Timer recording

Follow the procedure for timer recording on both pages before. At picture **3** press ◀ or ▶ repeatedly until the desired setting appears. Then press ▼. When you press ◀ or ▶ repeatedly, the indicator at DATE will change as follows, in case today is Friday.

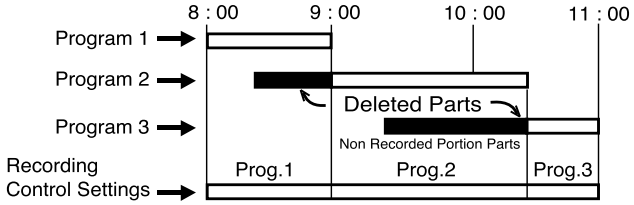


MON-SAT = everyday from Monday to Saturday
WKL-SAT = each Saturday



In case of Timer programs-overlapping

Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below.



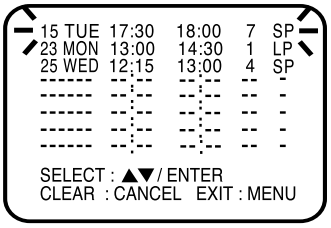
Notes:

- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording the automatic rewinding mechanism does not function.

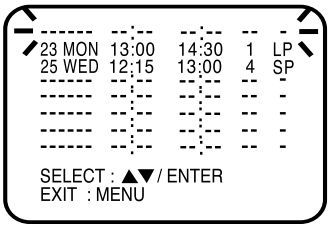
Confirmation / Cancellation of the Timer Recording

1 If the Timer has been activated, now press **TIMER REC** to deactivate the Timer. The clock symbol (⏲) will disappear. Then press **VCR** to change to VCR mode.

2 Press **PROGRAM**. All the 8 Timer memories will appear.

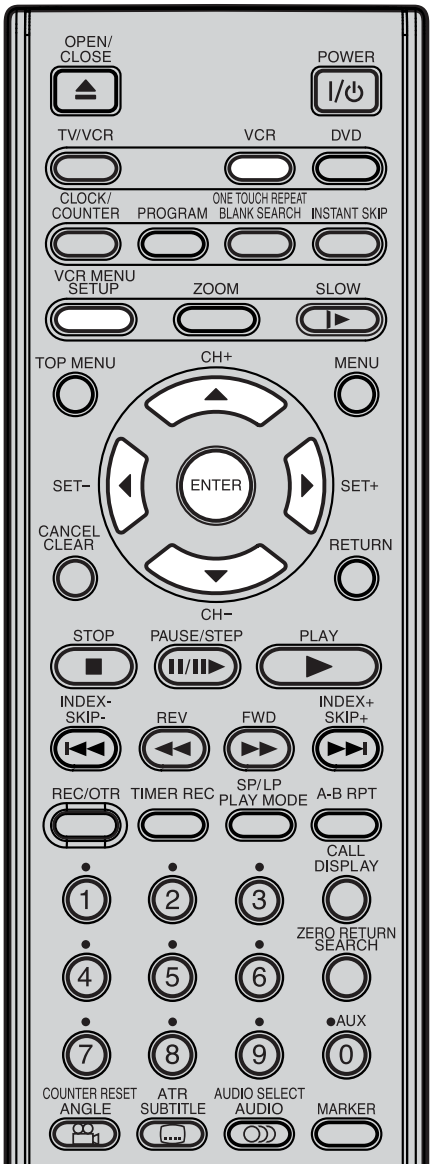


3 **To cancel Timer program:** Press ▲ or ▼ to select the written line. Then press **CANCEL**. This line is now canceled.



4 Press **VCR MENU** (or **PROGRAM**) repeatedly until the TV-picture appears.

This DVD/VCR is capable of recording sound in Hi-Fi system. The recording will be performed automatically. NICAM STEREO broadcasts are recorded in its original sound system regardless of the setting. If you wish to record NICAM programmes, select NICAM "AUTO" as follows.
And, this DVD/VCR can also receive and record German A2 stereo program. The tape recording is always both in Hi-Fi and in MONO on the standard longitudinal track. In case of bilingual TV programs always the two audio channels will be recorded.



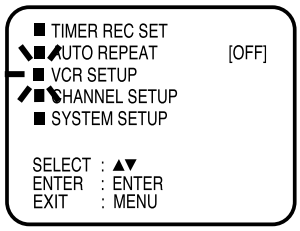
Note:
When listening to a stereo broadcast or playing back a Hi-Fi tape recorded in stereo, you have to connect the DVD/VCR with the stereo audio system or the stereo TV. The sound which is output from the RF OUT jack is monaural.

Preparation:

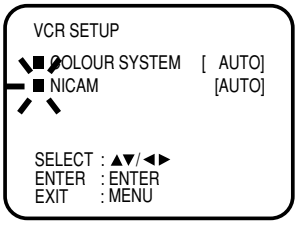
- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

NICAM stereo sound reception:

1 Press **VCR MENU**. Press ▲ or ▼ to select VCR SETUP.
Then press **ENTER**.



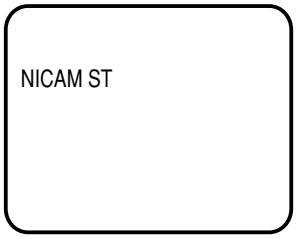
2 Press ▲ or ▼ to select NICAM.
Then press ◀/▶ or **ENTER** to select [AUTO].



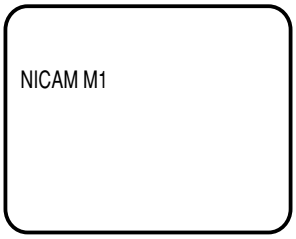
3 Press **VCR MENU** repeatedly until the TV picture appears.

NICAM programmes are divided into 4 types as shown below.

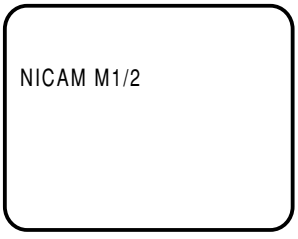
NICAM STEREO broadcast
"NICAM ST" illuminates when a NICAM STEREO broadcast signal is received.



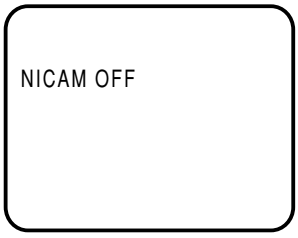
NICAM MONO A broadcast
"NICAM M1" illuminates when a NICAM MONO A broadcast signal is received.



NICAM MONO A B broadcast
"NICAM M1/2" illuminates when a NICAM MONO A and MONO B broadcast signal is received.

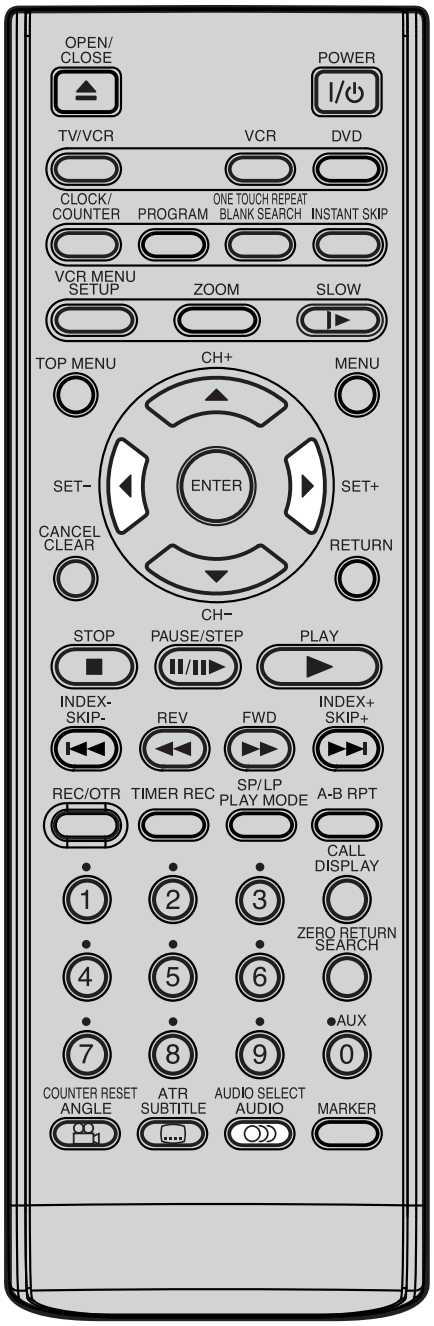


NICAM OFF
It will be displayed for the NICAM signal when the "NICAM [OFF]" is selected in menu screen.



ENGLISH

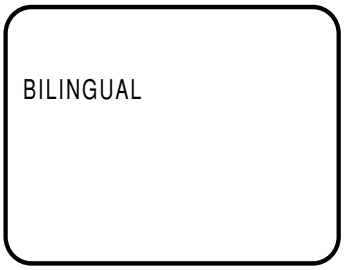
Stereo Recording and Playback



German A2 stereo sound reception:

Stereo program indication
It will be displayed for approx. 4 seconds when stereo programs are being received.

Bilingual program indication
It will be displayed for approx. 4 seconds when bilingual programs are being received.



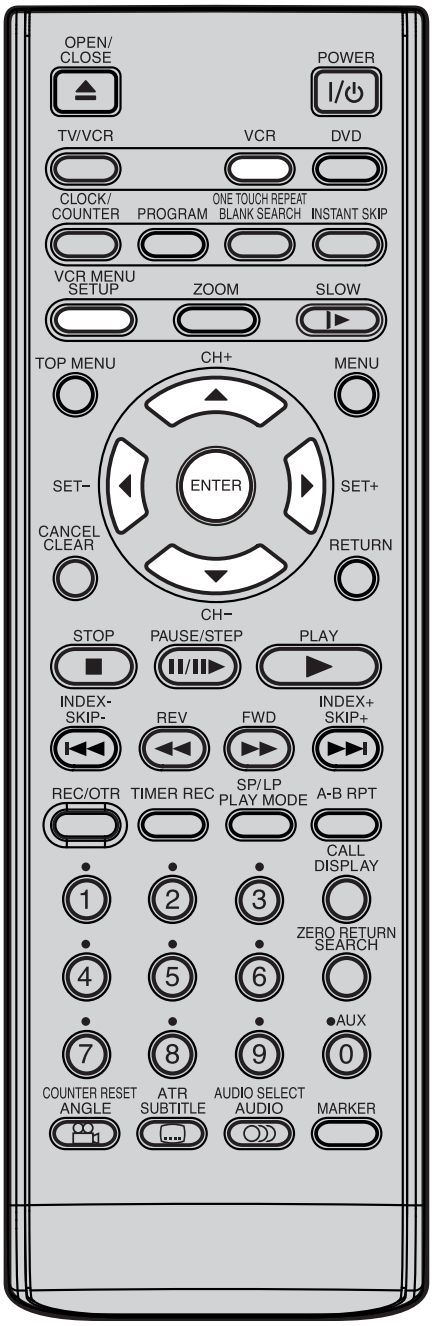
Playback
Use **AUDIO SELECT** to select under stereo/mono or bilingual playback. See the table below for more information.

On-screen indications (for 4 sec.)	Stereo playback performed in:	Bilingual playback performed as follows:
HI-FI STEREO	Stereo	Simultaneously both languages from Hi-Fi track (Mixed sounds)
HI-FI L CH	Left channel signal output from both loudspeakers	One's mother tongue dubbing (Main sound)
HI-FI R CH	Right channel signal output from both loudspeakers	Original sound track (Sub sound)
MONO	Mono	One's mother tongue dubbing (Main sound)

Note:
When playing Hi-Fi cassette tapes recorded on another VCR, the sound output may be distorted. This is normal and no indication of a unit malfunction. Try to minimize sound distortions by using **SET +/–** or change to MONO by pressing **AUDIO SELECT**.

Colour system selection

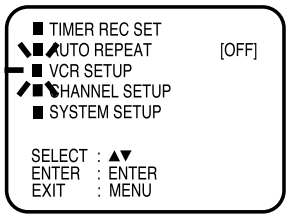
This unit can also playback tapes recorded in MESECAM.
In case you playback such a tape, set to MESECAM as follows.



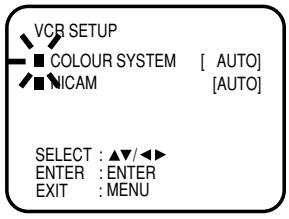
Preparation:

- Turn ON the TV and set to the AV input mode.
- Press **VCR** to select the VCR mode. (The VCR indicator will light.)

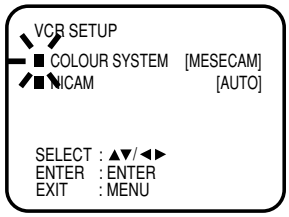
1 Press **VCR MENU**.
Press ▲ or ▼ to select VCR SETUP.
Then press **ENTER**.



2 Press ▲ or ▼ to select COLOUR SYSTEM.



3 Press ◄/► or **ENTER** to select [AUTO], [MESECAM] or [PAL] Colour system usually used in AUTO position. But when you play back the tape recorded in the MESECAM colour system, select the MESECAM position.

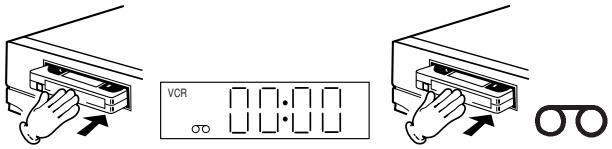


ENGLISH

Duplicating a Video Tape

When you try to connect with a cable, make sure the power of both units have been turned off.
Connect the recording unit with the TV. Therefore you can just watch what the recording unit is recording.

1 Load a blank cassette tape with the erase prevention tab intact into the recording DVD/VCR. Load the previously recorded cassette tape into the playback VCR or a video camera.



2 Use **AUX** or **CH +/–** of the recording DVD/VCR to select the "L1", "L2" or "L3" instead of the preset channel.

L1 = TV-RGB/Composite Scart Socket

L2 = VCR/DECODER Scart Socket

L3 = Front AV jacks

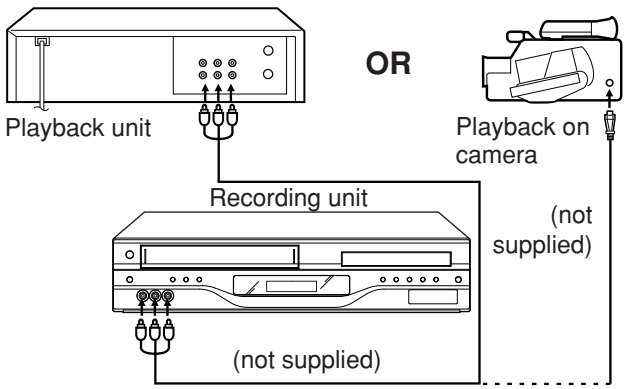
3 Press **REC/OTR** and then **PAUSE/STEP** of Recording unit.

4 Press PLAY-button and then PAUSE/STEP-button of Playback unit. Now you can see the still picture of the scene that you wish to duplicate.

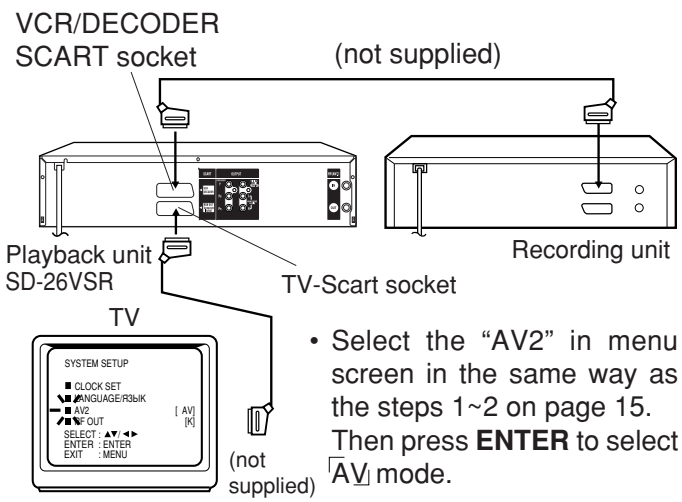
5 Press **PAUSE/STEP** of both units simultaneously to start the duplicating.

Note:
Before starting the duplicating process, select the proper tape speed using **SP/LP**. For a pre-recorded tape the correct tape speed will be set automatically during playback.

Connection with second Video recorder or Video camera



Press **AUX** on the recording unit repeatedly until L3 appears.



• Select the "AV2" in menu screen in the same way as the steps 1~2 on page 15. Then press **ENTER** to select "AV" mode.

Duplicating a disc material onto a video tape

You can record disc material in DVD, Video CD, Audio CD, etc. onto a video tape with this DVD/VCR only.
If the DVD disc has a Copy-guard feature, the duplicating is not possible. A symbol mark "⇒" will appear on the screen for approx. 4 seconds. See page 40 for more information about the DVD playback.

Preparation:

- Load a cassette tape with the erase prevention tab intact.
- Select the tape speed in the VCR mode. (see P.30)
- Load a disc you wish to duplicate.

1 Press **DVD** to select the DVD mode. (The DVD indicator will light)

2 Press **PLAY** to start the disc playback.

3 During disc playback, press **REC/OTR**.

Note:
You can set the duplicating time using the OTR-function. At step **3** above press **REC/OTR** repeatedly until the desired duplicating time appears on the screen.(P.32)

The region number of this unit is 5. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find 5 or ALL, disc playback will not be allowed by the player. (In this case, the unit will display a message on-screen.)

Playable Discs

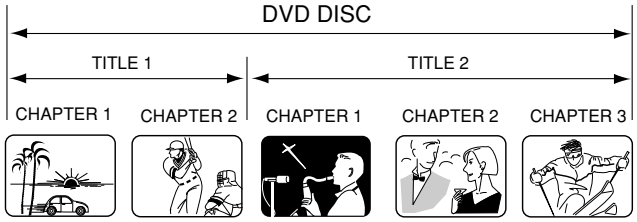
The loaded Disc (DVD, Video-CD, Audio-CD, SVCD and MP3/JPEG-CD) will be recognized automatically.
The suitable Disc-formats are: DVD, DVD-R/RW (video format only), CD-R and CD-RW.
Some CD-R/RW discs may be incompatible.

Do not play DVD-ROM, DVD-Audio, CDV, CD-G or Photo CD to prevent accidental erasure of prerecorded material.

Some DVDs are copy protected and forbid dubbing on to video tape. Picture Distortion will occur. This is not a defect of this unit.

Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a “TITLE”.

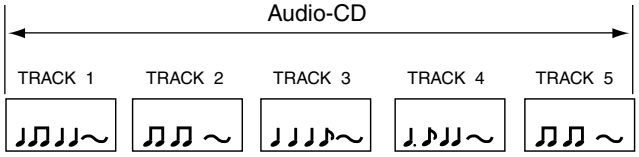


Chapter

The titles can be subdivided into many sections.
Each section is called a “CHAPTER”.

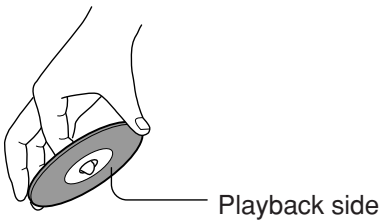
Track

An Audio CD can contain several items.
These are assigned to tracks.



On handling Discs

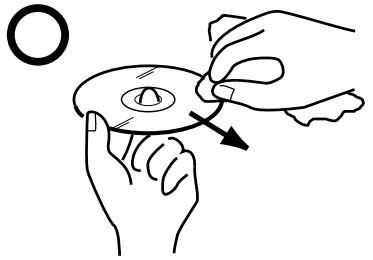
- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs.



Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.



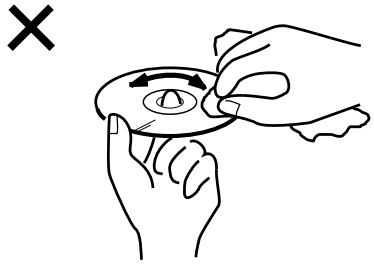
On Storing Discs

- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

On Cleaning Discs

Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.

- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.



Playing a disc

This section shows you the basics on how to play a disc.

Basic playback

Preparations:

- When you want to view a disc, turn on the TV and select the corresponding AV input connected to the DVD/VCR. This may include video or component video inputs which are exclusive to DVD playback.
- When you want to enjoy the sound of discs from the audio system, turn on the audio system and select the input connected to the DVD/VCR.

CAUTION
Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.

1 Press ON/STANDBY (I /⏻), then press DVD to select the DVD mode.

POWER

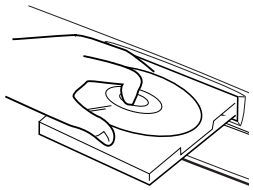
The DVD/VCR turns on and the DVD indicator lights up.
"Reading" display will change to "No Disc".
(If DVD disc has already loaded, playback will start automatically.)

2 Press OPEN/CLOSE.

OPEN/CLOSE

The disc tray opens.

3 Place the disc on the disc tray.



With the playback side down

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD to malfunction.
- Do not place a disc which is unplayable in this DVD.

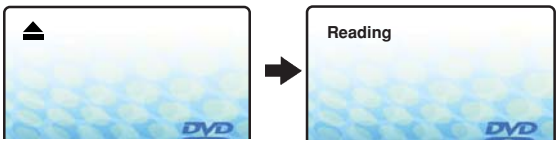
4 Press OPEN/CLOSE or PLAY on the unit.

OPEN/CLOSE

OR

PLAY

The disc tray closes automatically. On the TV-screen, "⏏" changes to "Reading" and then playback commences.



- A menu screen will appear on the TV screen, if the disc has a menu feature.
  Press ▲/▼ or ◄/► to select title, then press **ENTER**. Title is selected and play commences.

5 Press STOP to end playback.

STOP

■ Resuming facility

- The unit records the stopped point, depending on the disc. "⚑" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.

■ To start playback in the stop mode

Press **PLAY**.

PLAY

■ **To obtain a higher quality picture**

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this unit, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

■ **To pause playback (still mode)**

Press **PAUSE/STEP** during playback.

To resume normal playback, press **PLAY**.

• The sound is muted during still mode.

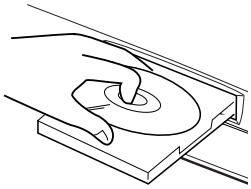
■ **To stop playback**

Press **STOP**.

■ **To remove the disc**

Press **OPEN/CLOSE**.

Remove the disc after the disc tray opens completely.



Be sure to press **OPEN/CLOSE** to close the disc tray after you remove the disc.

■ **Screen saver function**

The screen saver operates when you leave the unit in DVD stop mode for approx. five minutes.
The screen will repeatedly get dark gradually and back to normal.

Notes:

- If a non-compatible disc is loaded, “Incorrect Disc”, “Region Code Error” or “Parental Error” will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see pages 39 and 58).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press **OPEN/CLOSE** or **PLAY** on the unit, “Reading” will appear on the display for 30 seconds and then “Incorrect Disc” will continue to be displayed.
- Some discs may not work the resuming facility.
- Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see page 50.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- Do not move the unit during playback. Doing so may damage the disc.
- Use **OPEN/CLOSE** to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the unit to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the unit to malfunction.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press **ON/STANDBY** (I /⏻) on your remote control once the movie is completed.
- There may be a slight delay between you pressing the button and the function activating.

Playing a disc

You can play discs at various speeds.

Playing in fast reverse or fast forward directions

Press REV or FWD during playback.

REV: Fast reverse playback
FWD: Fast forward playback

Each time you press the REV or FWD button, the playback speed changes.

■ To resume normal playback

Press **PLAY**.

Notes:

- The DVD/VCR mutes sound and subtitles during reverse and forward scan of DVD/VCD video discs. However, this unit plays sound during fast forward or fast reverse play of audio CDs.
- The playback speed may differ depending on the disc.

Playing frame by frame

Press PAUSE/STEP during still playback.

Each time you press the PAUSE/STEP button, the picture advances one frame.

■ To resume normal playback

Press **PLAY**.

Note:

The sound is muted during frame by frame playback.

Playing in slow-motion

Press SLOW during playback.

Each time you press the button, the slow-motion speed changes.

■ To resume normal playback

Press **PLAY**.

Note:

The sound is muted during slow-motion playback.

Locating a chapter or track

Press SKIP ⏮ or ⏭ repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.

To locate succeeding chapters or tracks.

Playback starts from the beginning of the current chapter or track.
When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

One touch repeat

Press ONE TOUCH REPEAT during playback.

The playback skips back about 10 seconds and starts playing again.

If you press **ONE TOUCH REPEAT** again after the skipping back, it skips back a further 10 seconds.

Notes:

- Some discs may not work with the one touch repeat function.
- Some functions may be unavailable due to the disc configuration.
- Depending on the playback status, one touch repeat may not skip back as intended.

Notes:

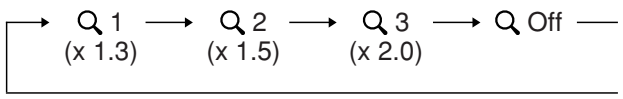
- A “Prohibition” symbol ✋ may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD can not access the feature at this time. This does not indicate a problem with the DVD.
- The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

Zooming

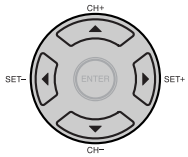
This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press ZOOM during playback.

The centre part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM as follows.



2 Press ▲/▼/◀/▶ to view a different part of the frame.



You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

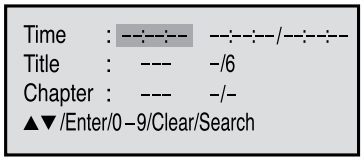
3 In the zoom mode press ZOOM repeatedly to return to a 1:1 view (Off).

Notes:
- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

Locating desired scene

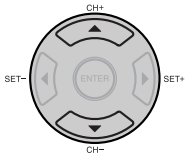
Use the title, chapter and time recorded on the DVD disc to locate the desired point to play back. In the case of VCD/CD disc, time and track are used to locate the desired point to playback.
To check the title, chapter and time, press **DISPLAY**.

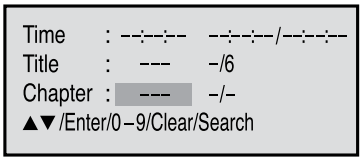
1 Press SEARCH during playback or stop mode.



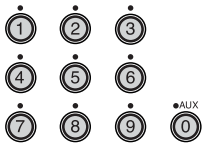
- "Time" only works in playback or resume stop mode.

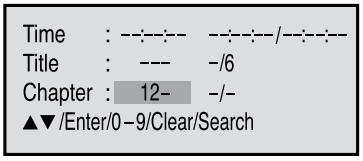
2 Press ▲ or ▼ to select the "Time", "Title" or "Chapter".





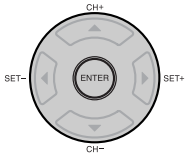
3 Press Number buttons (0–9) to change the number.





- If you input a wrong number, press **CLEAR**.
- Refer to the package supplied with the disc to check the numbers.

4 Press ENTER. Playback starts.



- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

Note:
In case of the Video CD playback with PBC, the Search (Jump) function does not work. To turn off PBC, see page 50.

ENGLISH

Marking desired scenes

The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.

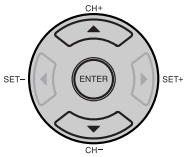
Marking the scenes

1 **Press MARKER during playback.**

Marker 1 : ✱✱ : ✱✱ : ✱✱
Marker 2 : ✱✱ : ✱✱ : ✱✱
Marker 3 : ✱✱ : ✱✱ : ✱✱
▲▼/Enter/Clear/Marker

2 **Select the blank Marker using ▲ or ▼. Then press ENTER at the desired scene.**

- Repeat this procedure to set the other 2 scenes.



Marker 1 : 00 : 27 : 54
Marker 2 : ✱✱ : ✱✱ : ✱✱
Marker 3 : ✱✱ : ✱✱ : ✱✱
▲▼/Enter/Clear/Marker

3 **Press MARKER to remove this display.**

Notes:

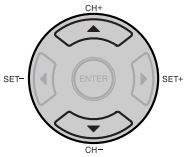
- Some discs may not work with the marking operation.
- The marking is cancelled when you open the disc tray or turn the power off.
- Some subtitles recorded around the marker may fail to appear.

Returning to the scenes

1 **Press MARKER during playback or stop mode.**

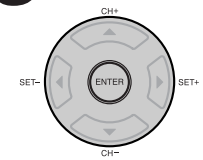
Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Clear/Marker

2 **Press ▲ or ▼ to select the Marker 1-3.**



Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Clear/Marker

3 **Press ENTER.**



Playback starts from the marked scene.

■ To cancel the Marker

Follow the above steps 1~2, then press **CLEAR**.

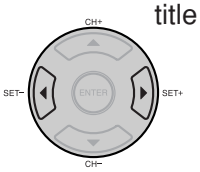
Repeat playback

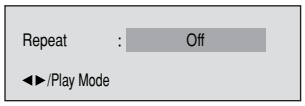
1 **Press PLAY MODE during playback or stop mode.**

SP/LP
PLAY MODE

2 **[DVD]**
Press ◀/▶ once or twice to select "Chapter" or "Title".

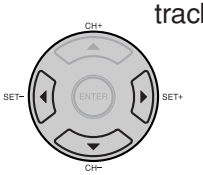
The unit automatically starts repeat playback after finishing the current title or chapter.

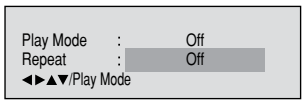




[Audio CD, Video CD, MP3 CD]
Press ▼ to select "Repeat".
Press ◀/▶ once or twice to select "Track" or "All".

The unit automatically starts repeat playback after finishing the current track.





- If you set the repeat mode during stop mode, press **PLAY** to start Repeat playback.

3 **Press PLAY MODE again to make the screen disappear.**

■ To resume normal playback

Select Repeat : "Off" in step 2.

Notes:
- Some discs may not work with the repeat operation.
- In case of Video CD with PBC, repeat functions are prohibited during playback.

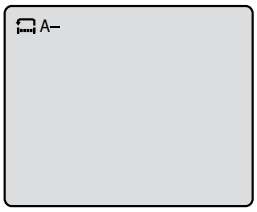
A-B Repeat playback

A-B repeat playback allows you to repeat material between two selected points.

1 **Press A-B RPT during playback.**

A-B RPT

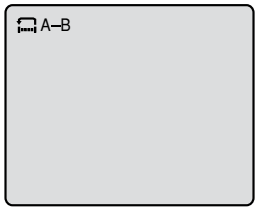
The start point is selected.



2 **Press A-B RPT again.**

A-B RPT

The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.



■ To resume normal playback

Press **A-B RPT** again.

A-B RPT

"Off" appears on the screen.

Notes:
- In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
- You can not set the A-B Repeat for the scenes that include multiple angles.
- A-B Repeat playback does not work when Repeat playback is activated.
- You may not be able to set A-B Repeat, during certain scenes of the DVD.
- A-B Repeat does not work with an interactive DVD, MP3/JPEG CD.
- A-B Repeat is prohibited when PBC is on.

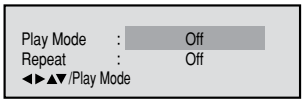
ENGLISH

Program playback/Random playback (VCD/CD)

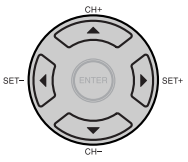
You can arrange the playback order of tracks or files on the disc. And also the unit selects tracks or files at random and playback them. These feature works for Audio CD, Video CD and MP3/JPEG CD.

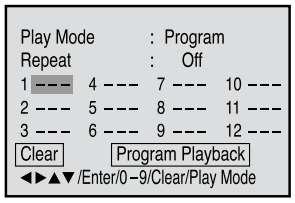
Program playback

1 **Press PLAY MODE during stop mode.**

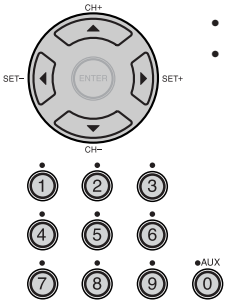


2 **Press ▲/▼ to select Play Mode, then press ◄/► to select "Program".**

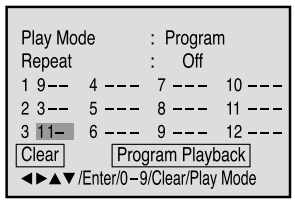




3 **Press ▲/▼ or ◄/► to select the programming position. Use Numbered buttons (0–9) to input the track or file numbers.**



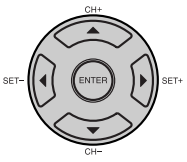
- To program others, repeat step 3.
- If you input a wrong number, press **CLEAR.**

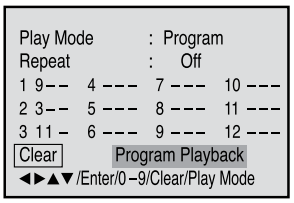


4 **Press ▲/▼/◄/► to select "Program Playback" and press ENTER.**

The programs you selected will start to playback in the order.

- In case of JPEG file, press **SKIP** ►►I to continue the program playback.
- To resume normal playback, select Play Mode: "Off" in step 2.





■ **To change the program**

1. In the program mode, press ▲/▼/◄/► to select the track number.
2. Press **Number buttons (0–9)** to select the track number to be replaced.

■ **To clear the program one by one**

In the program mode, press ▲/▼/◄/► to select the track number. Then press **CLEAR**.

■ **To clear all the programs**

In the program mode, press ▲/▼/◄/► to select "Clear". Then press **ENTER**.

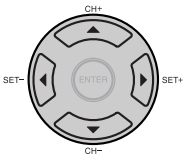
Notes:

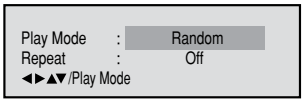
- In playing back the Video CD with PBC, you can not set Program playback.
- The program is cancelled when you open the disc tray or turn the power off.

Random playback

1 **Press PLAY MODE during playback or stop mode.**

2 **Press ▲/▼ to select Play Mode, then press ◄/► to select "Random".**





3 **Press PLAY.**

The Random Playback will start.

- If you set "Random" during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select Play Mode: "Off" in step 2.

Note:

In playing back the Video CD with PBC, you can not set Random playback.

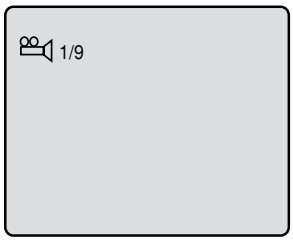
Changing angles/Title selection/DVD menu

Changing angles

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 **Press ANGLE during playback.**

The current angle will appear.



2 **Press ANGLE repeatedly until the desired angle is selected.**

Note:
Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

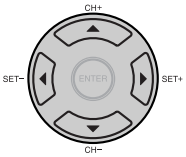
Title selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

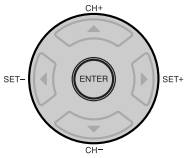
1 **Press TOP MENU during playback.**

Title menu appears on the screen.

2 **Press ▲/▼/◀/▶ to select the desired title.**



3 **Press ENTER or PLAY.**



The playback of the selected title will start.

Note:
Depending on the DVD, you may not be able to select the title.
Depending on the DVD, a “title menu” may simply be called a “menu” or “title” in the instructions supplied with the disc.

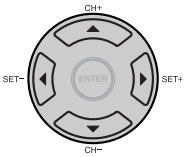
DVD menu

Some DVDs allow you to select the disc contents using the menu.
When you play back these DVDs, you can select the subtitle language and sound-track language, etc. using the menu.

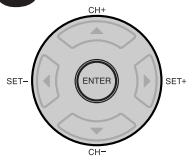
1 **Press MENU during playback.**

The DVD menu appears on the screen.
- Press **MENU** again to resume playback at the scene when you pressed **MENU**.

2 **Press ▲/▼/◀/▶ to select the desired item.**



3 **Press ENTER.**



The menu continues to another screen. Repeat steps **2** and **3** to set the item completely.

Note:
Depending on the DVD, you may not be able to resume playback from the scene point when you pressed the MENU button.

ENGLISH

Changing soundtrack language/Setting surround sound

Changing soundtrack language

You can select the language when you play a multilingual disc.

1 **Press AUDIO during playback.**

The current soundtrack language will appear.

2/8 Rus Dolby Digital
QSound Off

2 **Press AUDIO repeatedly until the desired language is selected.**

1/8 Eng Dolby Digital
QSound Off

- The on screen display will disappear after a few seconds.

■ **In case of Video CD playback**

Audio type changes as follows each time you press **AUDIO**.

LR
QSound Off → L
QSound Off → R
QSound Off

Notes:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.

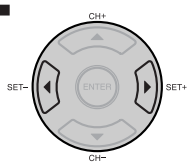
Setting surround sound

This DVD video player equipped with a “QSound”. It can produce the effect of being in a cinema or a concert hall.

1 **During disc playback press AUDIO.**

1/8 Eng Dolby Digital
QSound Off

2 **Press ◄ or ► to select “On”.**



1/8 Eng Dolby Digital
QSound On

- The on screen display will disappear after a few seconds.

■ **To cancel Surround mode**:
Follow the left steps 1~2, then press ◄ or ► to select the “Off” position.

Notes:

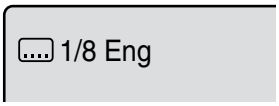
- The “QSound” is effective only for the sound of disc.
- The QSound setting can also be changed in the function setting (see page 57).

QSOUND®
Manufactured under license from QSound Labs, Inc. U.S. patent Nos. 5,105,462, 5,208,860 and 5,440,638 and various foreign counterpart. Copyright QSound Labs, Inc. 1998-2002. QXpander™ is a trademark of QSound Labs, Inc. All rights reserved.

Subtitles

When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

1 **Press SUBTITLE repeatedly during playback until your desired language appears.**



2 **To turn off the subtitle, press SUBTITLE until "Off" appears.**

- The on screen display will disappear after a few seconds.

Notes:

- Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.
- While playing a DVD, the subtitle may change when you open or close the disc tray.
- In some cases, a selected subtitle language may not be changed immediately.

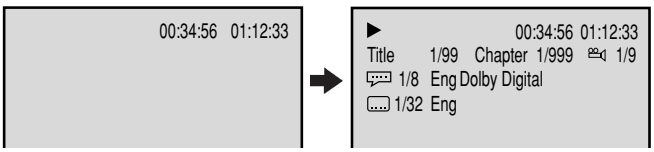
ENGLISH

Disc status/To turn off the PBC

Disc status

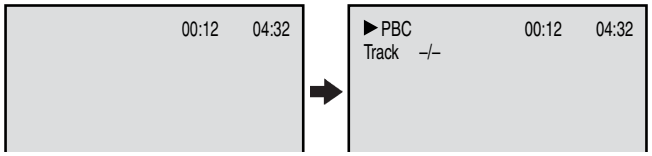
With each press of DISPLAY, the status of the disc will appear on the screen and change as follows.

[DVD]



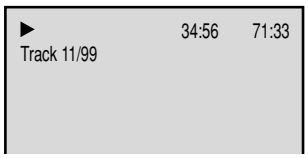
To make status display disappear, press **DISPLAY** again.

[Video CD]



To make status display disappear, press **DISPLAY** again.

[Audio CD]

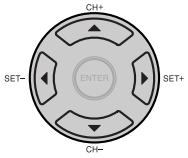


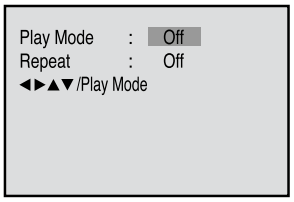
When you playback the CD disc, the status display will appear on the screen and continue displaying.

To turn off the PBC

1 **Press PLAY MODE in the stop mode.**

2 **Press ▲/▼ to select Play Mode, then press ◀/▶ to select "Off".**





3 **Press PLAY MODE again to make the screen disappear.**

■ To turn on the PBC

Follow the above steps 1~2, then press ◀ or ▶ to select "PBC".

Note:
You can also turn off the PBC by pressing number button **1** and **ENTER** in the stop mode.

This player can play back the MP3/JPEG-data which has been recorded on CD-R or CD-RW. To produce the MP3/JPEG-data, you need a Windows-PC with CD-RW drive and a MP3/JPEG-encoding Software (not supplied). The Apple-HFS-System can not be played.

Note:
This unit requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Prerecorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). Given the fact that technology in this area is still maturing, Toshiba cannot guarantee that all genre of recordable discs will produce optimal playback quality. The technical criteria set out in this owner's manual are meant as a guide only.
Please be advised that you must obtain permission from the applicable copyright owners to download copyrighted content, including music files, in any format, including the MP3 format, prior to the downloading thereof.
TOSHIBA has no right to grant and does not grant permission to download any copyrighted content.

MP3/JPEG CD information

Limitations on MP3/JPEG CD playback

- MP3/JPEG CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "mp3", "jpg".
- MP3/JPEG CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- MP3/JPEG CDs cannot be used for the purpose of recording.
- If the CD has both audio tracks and MP3/JPEG files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/JPEG files depending on its structure.
- Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 16 letters) on the screen. Long file names will be condensed.
- The music files recorded by "Hierarchical File System" (HFS) cannot be played.

Limitations on display

- The maximum number for display is 16 letters.
  Available letters for display are the following:
  capital or small alphabets of A through Z, numbers of 0 through 9, and _ (under score).
- Other letters than those above are replaced in hyphen.

Notes on MP3/JPEG files

To play back MP3/JPEG CD in the recorded order,
1. Use MP3/JPEG software that records data alphabetically or numerically.
2. Name each file including two-digit or three-digit number (ex. "01" "02" or "001" "002").
3. Refrain from making too many sub-folders.

CAUTION:

- Some MP3/JPEG CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non MP3/JPEG files can not be played back.

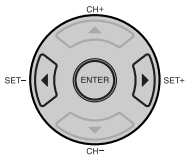
Standard, sampling frequency, and the bit rate:

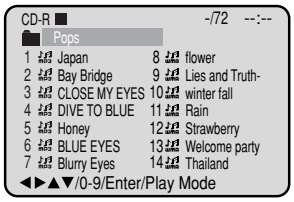
MP3 CD
MPEG-1 Audio
32kHz, 44.1kHz, 48kHz
32kbps ~ 320kbps (constant bit rate or variable bit rate)
The recommend recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.

MP3 CD playback

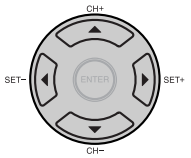
1 **Place a disc on which MP3 files have been recorded onto the disc tray.**

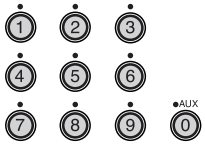
2 **A file menu screen will appear on the screen. Press ◀/▶ or ENTER to select folder.**



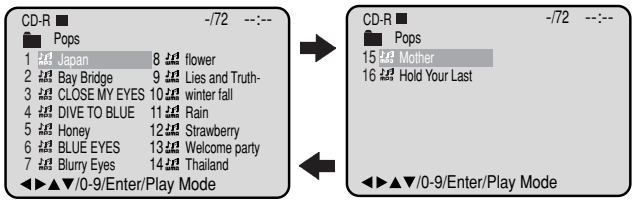


3 **Press ▲/▼/◀/▶ or Number buttons (0–9) to select the desired file.**



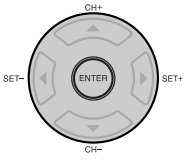


- In case the folder includes more than 15 files, press ◀ or ▶ to display next file list.



- When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed using **PLAY**, playback begins automatically starting from the first file. In this case, if the first file is an MP3 file, only MP3 files are played back in order. If the first file is a JPEG file, the first JPEG file is played back.

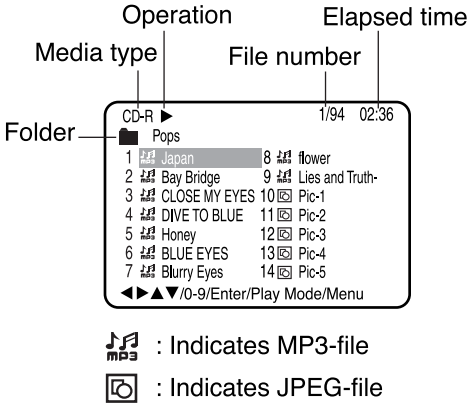
4 **Press ENTER.**
The selected file starts playing back.



5 **Press STOP to end playback.**

- The unit records the stopped point. "⚑" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc, the unit will clear the stopped point.

About file menu



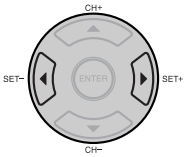
Notes:
- The picture menu is displayed when the FUJICOLOR CD or the Kodak Picture CD are played. To display the file menu, press **TOP MENU**.
- In the case of a CD containing a mixture of MP3 and JPEG files, the files are played back by selecting them from the file menu.
- MP3 file on the Kodak Picture CD is not recognized on this unit.

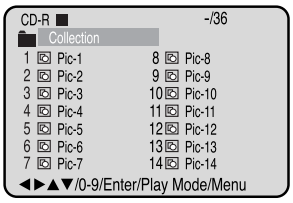
Notes:
- During MP3/JPEG-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/JPEG CD Playback (see pages 45 and 46).
- In the case of a CD containing a mixture of MP3 and JPEG files, the files are played back by selecting them from the file menu.

JPEG CD playback

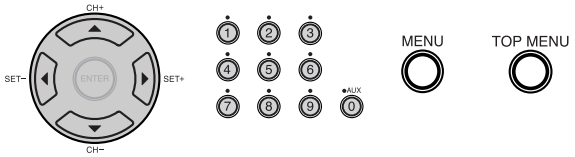
1 **Place a disc on which JPEG files have been recorded onto the tray.**

2 **A file menu screen will appear on the screen. Press ◀/▶ to select folder.**



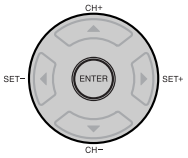


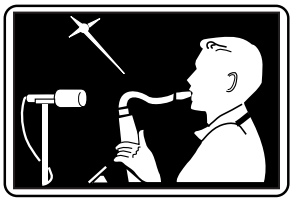
3 **Press ▲/▼/◀/▶ or Number buttons (0–9) to select the desired file.**
To display a picture menu, press **MENU**.
(To return to a file menu, press **TOP MENU**.)
Press ▲/▼ or ◀/▶ to select the desired file.



- To display next list, press **SKIP** ⏮/⏭.
- When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing **PLAY**, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first JPEG file is played back. If the first file is an MP3 file, only MP3 files are played back in order.

4 **Press ENTER. The selected picture appears on the screen.**





Rotating an image
You can rotate an image by 90 degrees by pressing **ANGLE** during playback of the image.
"", "", "" or "" appears briefly on the screen.

5 **Press STOP to end playback.**
The file menu appears on the screen.
If you want to watch the other file, repeat steps 3 ~ 4.

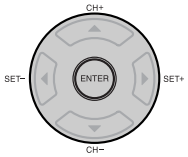
Slide show playback

The slide show enables you to view pictures (files) one after another automatically.

Preparation:
- Set "JPEG Interval" setting to "5 Seconds", "10 Seconds" or "15 Seconds" see page 57.

1 **Select your desired starting file for the slide show in the step 3 as left.**

2 **Press ENTER to start slide show from the selected file.**



- If you press **PAUSE** during the slide show, the slide show stops temporary. " ⏸ " appears briefly on the picture.
  If the picture appears upside down or sideways, press **ANGLE** repeatedly until it's right side up.
  "", "", "" or "" appears briefly on the screen.
  Press **PLAY** or **SKIP** ⏭ again to resume the slide show.
- When the slide show playback finished the file list appears.
- To stop the slide show, press **STOP**. The file list appears.

ENGLISH

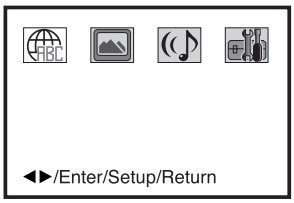
Customizing the function settings

You can change the default settings to customize performance to your preference.

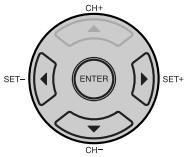
Setting procedure

1 **Press SETUP during stop mode.**

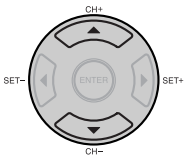
The following on-screen display appears.



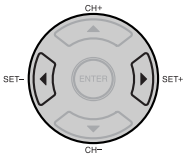
2 **Press ◄ or ► to select the desired section, then press ▼ or ENTER.**



3 **Press ▲ or ▼ to select the desired option.**



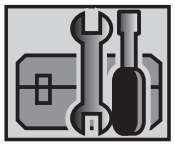
4 **Change the selection using ◄ or ►, by referring to the corresponding pages 56~58.**



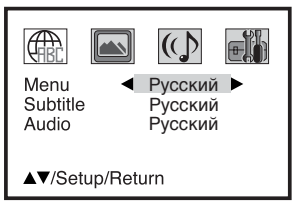
- Repeat steps 3 and 4 to change other settings.
- To select another operation, go back to step 2 by pressing ▲ repeatedly.

5 **To make SETUP screen disappear, press SETUP or RETURN.**

Setting details

Section	Option	Details	Page
	Menu **Subtitle** **Audio**	To select the language of “Menu”, “Subtitle” and “Audio” if more than one language are available on the disc.	
	E.B.L.	To select On or Off for E.B.L. (Enhanced Black Level).	56
	Tv Screen	To select a picture size according to the aspect ratio of your TV.	
	Display	To turn on or de-activate the operational status display on the screen.	
	Picture Mode	To select a preferred picture mode from “Auto”, “Film” or “Video”.	
	JPEG Interval	To select a preferred setting for the slide show playback.	57
	Dialogue	To select On or Off for DRC (Dynamic Range Control).	
	QSound	To select On or Off for QSound.	
	**Password**	Input 4-digit password to set the parental level.	
	Parental	To select a preferred parental level for the parental setting.	
	Select Files	To select a preferred file type for playing back a CD containing a mixture of file types.	58
	Output	To select a preferred video output signal of “RGB”, “Component” or “Progressive”.	

Setting details



■ Menu, Subtitle, Audio

You can select the language of “Menu”, “Subtitle” and “Audio” if more than one languages are recorded onto the disc.

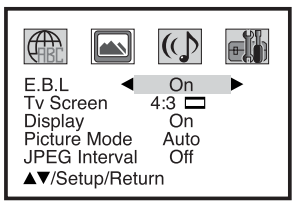
English, Русский:
The selected language will be heard or seen.

Other:
Other language can be selected (see the “Language code list” on page 60).

Original: (Audio)
The unit will select the first priority language of each disc.

Off: (Subtitle)
Subtitles do not appear.

Notes:
- If the selected language is not recorded on the disc, the first-priority language is selected.
- If you want to change the OSD language, you can perform it by VCR MENU (see page 15).



■ E.B.L.

To select the black level of playback pictures, set your preference and monitor’s ability.

On: Enhanced grey scale (0 IRE cut off)
Off: Standard grey scale (7.5 IRE cut off)

■ Tv Screen

You have the following screen sizes to choose from:

4:3 ▭ (Letter box):
Select this mode when connecting to a conventional TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

4:3 ▯ (Pan scan):
It displays the wide picture on the whole screen with left and right edges automatically cut off.

16:9 ▭ (Wide):
Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

Press **OPEN/CLOSE** to view in the selected screen size.

Note:
If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.

■ Display

On screen display can be switched on or off when you press the buttons.

On: On screen displays appear when you press the buttons (factory setting).
Off: On screen displays do not appear when you press any buttons.

■ Picture Mode

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Auto: Select this position normally.
The DVD player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.

Film: The DVD player converts film content pictures in the progressive output format appropriately. Suitable for playback of film content pictures. The progressive output feature will be most effective under this selection.

Video: The DVD player filters video signal, and converts it in the progressive output format appropriately.
Suitable for playback of video content pictures.

Note:
Depending on the disc, pictures may be cut off or doubled. In this case, select “Video”.

■ JPEG Interval

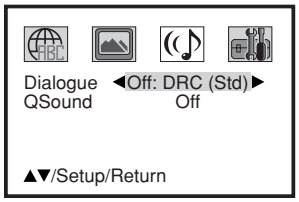
You can continuously play back all JPEG files automatically.
After the setting below, start playing the disc on which JPEG files have been recorded.

Off:
Plays back one file at a time.

5 Seconds:
Plays back images in the form of a slide show at 5 second intervals.

10 Seconds:
Plays back images in the form of a slide show at 10 second intervals.

15 Seconds:
Plays back images in the form of a slide show in 15 second intervals.



■ Dialogue

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

On: DRC (TV):
Loud sound such as explosion or similar is toned down slightly when played back. This makes it suitable for when it is connected to a stereo.
Off: DRC (Std):
It plays back at the recording level on the disc.

Notes:
- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

■ QSound

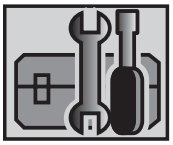
This DVD video player equipped with a “QSound”. It can produce the effect of being in a cinema or a concert hall.

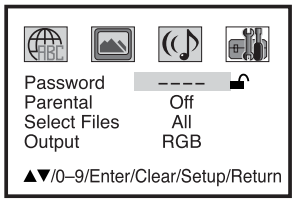
On: The QSound operates.
Off: The QSound is disengaged.

Note:
The QSound setting can also be changed with **AUDIO** on the remote control (see page 48).

ENGLISH

Setting details





■ Parental control setting

Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.

1) Press ▲ or ▼ to select “Parental”, then press ◄ or ► until the level you require appears.
   • **Level Off**: The parental control setting does not function.
   • **Level 8**: Virtually all DVD software can be played back.
   • **Level 1**: DVD software for adults cannot be played back.
   Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.
2) Press ▲ or ▼ to select “Password”.
   Press **Number buttons (0–9)** to input a 4-digit password. Be sure to remember this number!
   • If you input a wrong number, press **CLEAR**.
3) Press **ENTER** to store the password.
   Note: Now the rating is locked and the setting cannot be changed unless you enter the correct pass word.
4) Press **OPEN/CLOSE** to activate Parental control setting. (See “Temporary disabling of rating level by DVD disc” on page 59.)

Notes:
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says “adult.” For those discs, the age restriction will not work.

■ To change the parental level

1) Press ▲ or ▼ to select “Password”.
2) Press **Number buttons (0–9)** to enter the password you have stored.
3) Press **ENTER**.
   • The rating is now unlocked.
4) Press ▲ or ▼ to select “Parental”, then press ◄ or ► to change the parental level.
5) Press ▲ or ▼ to select “Password”, then press **Number buttons (0–9)** to enter the password.
   Note: You can change the password if you want.
6) Press **ENTER**.
   Now the parental level is changed and locked.

If you forget the password...
1. Press **OPEN/CLOSE** to open the disc tray.
2. Remove the disc.
3. Press **OPEN/CLOSE** again to close the disc tray. “No Disc” appears on the screen.
4. While holding **7** down on the remote control and then press **STOP** on the front panel. “PASSWORD CLEAR” appears on the screen.
5. Enter a new password again.

■ Select Files

When playing back a CD containing a mixture of MP3 and JPEG files, only MP3 or JPEG files can be displayed on the file menu.

All:
Displays all files.
Music Only:
Displays only MP3 files.
Pictures Only:
Displays only JPEG files.

■ Output

You can select the video output signal of the DVD/VCR to the TV from “RGB”, “Component” or “Progressive”.

RGB:
Select when connecting to an RGB or composite TV.
Component:
Select when connecting to a TV equipped with component video inputs but progressive scan is not compatible.
Progressive:
Select when connecting to a TV equipped with component video inputs, progressive scan compatible.

Warning:
Once “Progressive” is selected when connecting to a TV progressive scan incompatible, no image will be seen on the video display.
In this case, you must reset the unit by pressing the STOP button on the front panel for five seconds. The video output will be restored to “RGB” setting, and a picture will once again be seen on a conventional analog display. (You may need to make the Scart connection if you connect a TV, progressive scan incompatible, with component lead only.)

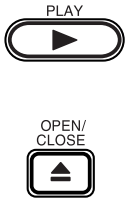
Notes:
- Some discs may not be played back with the progressive scanning mode correctly because of the disc characteristics or recording condition.
- Once Progressive scan on, all other video outputs are disabled except component video outputs.

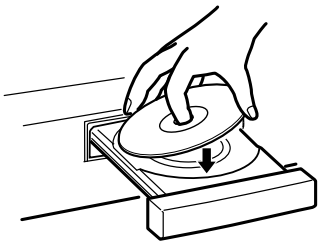
Note:
If each setup (pages 56~58) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).
Each setup will be retained in the memory even if you turn the power off.

Temporary disabling of rating level by DVD disc

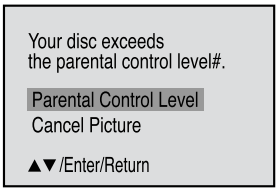
Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set.
It is up to you to decide whether to cancel the rating level or not.

1 **Load a DVD disc and press PLAY or OPEN/CLOSE on the unit, see page 40.**

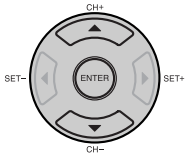




2 **If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the ENTER key, "Your disc exceeds the parental control level#." screen will then appear.**

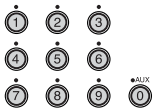


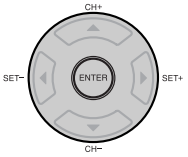
3 **If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press ENTER. If the 4-digit password at step 2 on page 58 has been set, the password entering screen will appear as shown in step 4.**
Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture". The setting screen will disappear. Press OPEN/CLOSE to remove the disc.

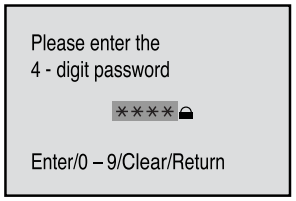


4 **Enter the password with Number buttons (0–9). Then press ENTER.**

To exit from the entry, press **RETURN**.







5 **Playback will commence if the entered password was correct.**

Note:
This temporary cancellation of rating level will be kept until the disc is ejected.
When the disc is ejected, the original rating level will be set again automatically.

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Language code list

Enter the appropriate code number for the initial settings “Menu”, “Subtitle” and/or “Audio” (see page 56).

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631

Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.
Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	• Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit, then plug it back in. • Select the DVD or VCR mode before operating.	– – – – 15,40
No picture.	• Antenna connection is not correct or antenna cable is disconnected. • The video channel is not in the correct position or the TV is not set to the video channel. • Check the unit is connected correctly. • The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent). • Channel is set to the external mode.	11 14 11~13 – –
No sound.	• Check the unit is connected correctly. • Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode.	11~13 – 26,42
The remote control does not function.	• Aim at the remote control at the remote sensor. • Operate within Approx. 5 Meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly. • Check the frequency code is set correctly.	10
VCR		
TV recording does not work.	• The erase prevention tab of the video cassette is broken off. • The unit is in the external input mode.	24
Timer recording does not work.	• The time is not set correctly. • The recording start/end time is not set correctly. • The TIMER REC has not been pressed (⊡ is not lit).	17 33 34
Noise bars on screen.	• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment. • Video heads are dirty. • The tape is worn or damaged.	26 62 –
DVD		
Display is not shown in your language.	• Select proper language in the menu options.	56
Playback doesn't start.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc.	40 39 39
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	• Some discs may not do some of the functions.	–

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SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
No 4:3 (16:9) picture.	• The setup does not match your TV.	56
No on-screen display.	• Select Display On.	56
No surround sound.	• The setup does not match your stereo system.	13
The unit or remote operation key is not functioning.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	15
Playback does not start when the title is selected.	• Check the Parental control setting.	58
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	• Multilingual language is not recorded on the DVD disc.	56
No subtitle.	• Some discs have no subtitles. • Subtitles are cleared. Press **SUBTITLE**.	– 49
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	47
appears on the screen.	• The function is prohibited with the unit or the disc.	42

Video head cleaning

Video Head Clogging

The video heads record and playback pictures and sound on the video tape. In the event that they become dirty you won't be able to do a perfect recording and the playback picture will be extremely snowy. Also, keep in mind that a poor tape quality and a damaged cassette may contribute to the rapid accumulation of dirt on the heads.

Good Picture

Snowy Picture

Automatic Head Cleaning System

The Automatic Head Cleaning System cleans the video heads automatically when a cassette is inserted and ejected to prevent dirt from accumulating on the heads. However, manual head cleaning is needed if the picture on playback is still unclear although the picture on program is normal. This failure signifies that the head is getting dirty and can occur when playing poor quality or damaged tapes. If the heads require cleaning, use a high quality head-cleaning cassette or have them cleaned professionally.

Attention:

Video heads may eventually wear out and should be replaced when they fail to produce clear pictures even after having been carefully cleaned.

Specifications

GENERAL

Power supply:	AC 110~240V 50Hz	
Power consumption:	Operation: 21W	
	Stand by: 5W	
Weight:	3.6 kg	
Dimensions:	Width : 430 mm	
	Height : 89.5 mm	
	Depth : 256 mm	
Input Level:	SCART-socket:	VIDEO: 1 Vp-p, 75 Ω
		AUDIO: 500 mV, 50 k Ω
	Audio IN jack:	500 mV, 50 k Ω
	Video IN jack:	1 Vp-p, 75 Ω
Output Level:	SCART-socket:	VIDEO: 1 Vp-p, 75 Ω
		AUDIO: 500 mV, 1 k Ω
	Audio OUT jack:	500 mV, 1 k Ω
Hi-Fi Frequency Response:	20Hz to 20,000Hz	
Hi-Fi Dynamic Range:	More than 75dB	

VCR section

Video system:	PAL/MESECAM
Video Head:	4 Rotary Heads
Audio Track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Channel coverage:	E2-E12, X-Z+2, S1-S41, E21-E69
RF Channel Output:	UHF channel 60 (23 to 69)
FWD/REV Time at 25˚C:	Approx. 1minute and 48 seconds (with E-180 Cassette Tape)

DVD section

Signal system:	PAL/NTSC
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics	
Frequency response:	DVD: 4Hz - 22KHz
	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.06%
Wow and flutter:	Below Measurable Level
Output:	Audio : (RCA) – 12dB, 1 k Ω
	Digital Audio : 0.5Vp-p, 75 Ω
	Component video:
	Y: 1 Vp-p, 75 Ω
	P_R: 0.7 Vp-p, 75 Ω
	P_B: 0.7 Vp-p, 75 Ω
Pickup:	CD : Wavelength: 775 - 805 nm
	Maximum output power: 0.5 mW
	DVD : Wavelength: 640 - 660 nm
	Maximum output power: 1.0 mW

ACCESSORIES:

Remote control x 1
75 Ω Coaxial Cable x 1
Audio RCA Cable x 1
Battery (UM-4) x 2

Design and specifications are subject to change without notice.

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Следующая информация только для государств – членов ЕС:

Данный символ означает, что этот продукт не может рассматриваться в качестве бытовых отходов. Удостоверившись, что утилизация продукта произведена правильным образом, Вы тем самым поможете предотвратить потенциальные негативные последствия для окружающей среды и здоровья человека, которые в противном случае могли бы быть вызваны неправильной утилизацией. За более детальной информацией о переработке данного продукта обращайтесь в Ваш местный офис компании, в центр по утилизации бытовых отходов или в магазин, где товар был приобретен.

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact you local city office, your household waste disposal service or the shop where you purchased the product.

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